



The National

CLEANER & DYER

First in the Drycleaning Industry Since 1910

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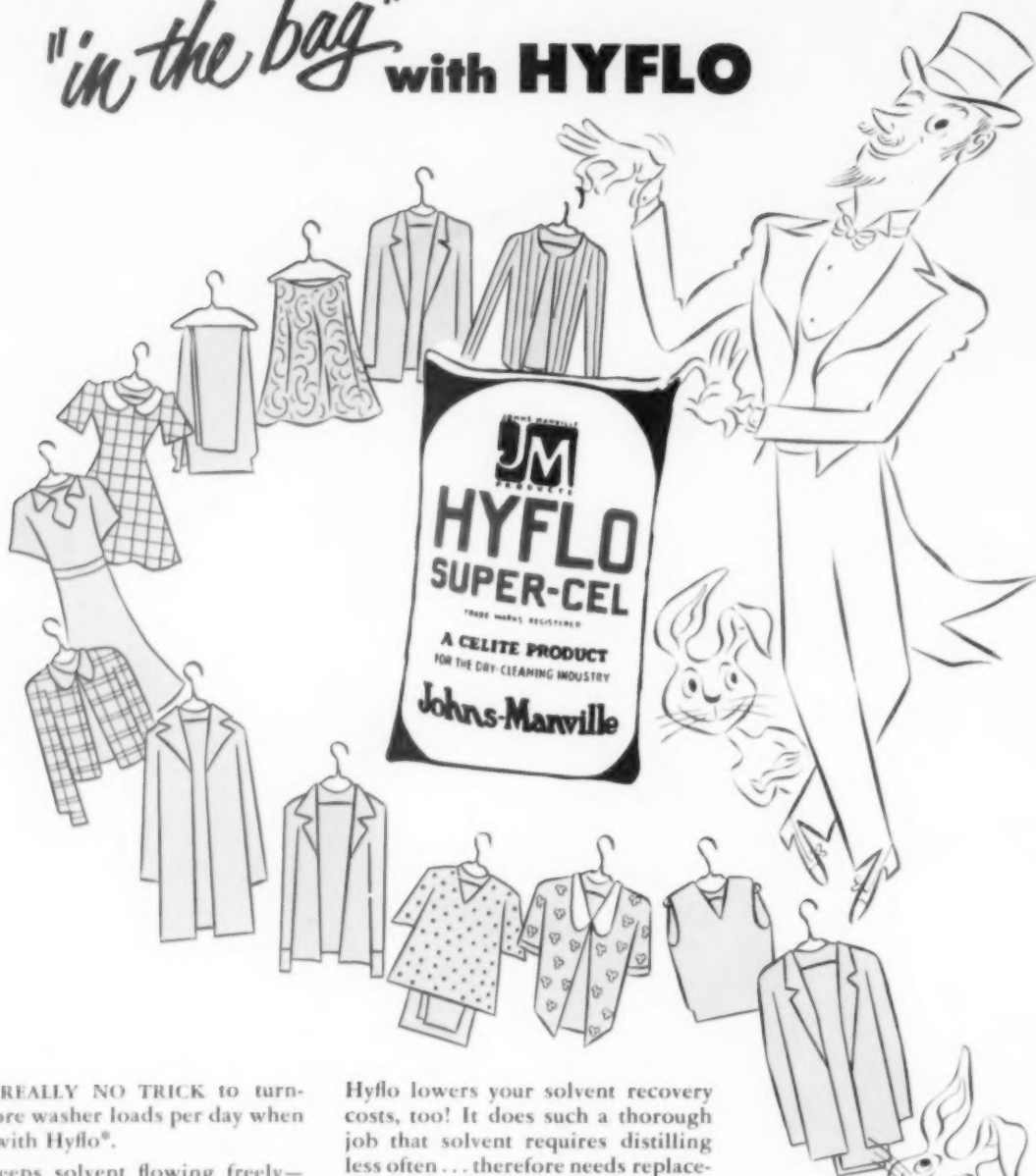
**GUIDEBOOK
ISSUE**

OF THE
DRYCLEANING
INDUSTRY

**APRIL
1954**

Faster production is

"in the bag" with **HYFLO**



THERE'S REALLY NO TRICK to turning out more washer loads per day when you filter with Hyflo®.

Hyflo keeps solvent flowing freely—keeps filter pressures low longer—cuts down on time spent cleaning filter screens.

Characteristics specially suited to dry cleaning requirements make Hyflo the *high speed* filter powder. Particle fineness is exactly right for trapping dirt (lint, dust, and other solids). The crystal-clear solvent passes freely through the cake that builds up on the screen.

*Reg. U.S. Pat. Off.

Hyflo lowers your solvent recovery costs, too! It does such a thorough job that solvent requires distilling less often... therefore needs replacement less frequently.

To find out more about Hyflo and how to use it to best advantage, ask your dealer for a copy of the new Sixth Edition of the 52-page Dry Cleaners' Handbook. It's yours without cost or obligation. Write to Johns-Manville, Box 60, New York 16, New York. In Canada, 199 Bay Street, Toronto 1, Ontario.

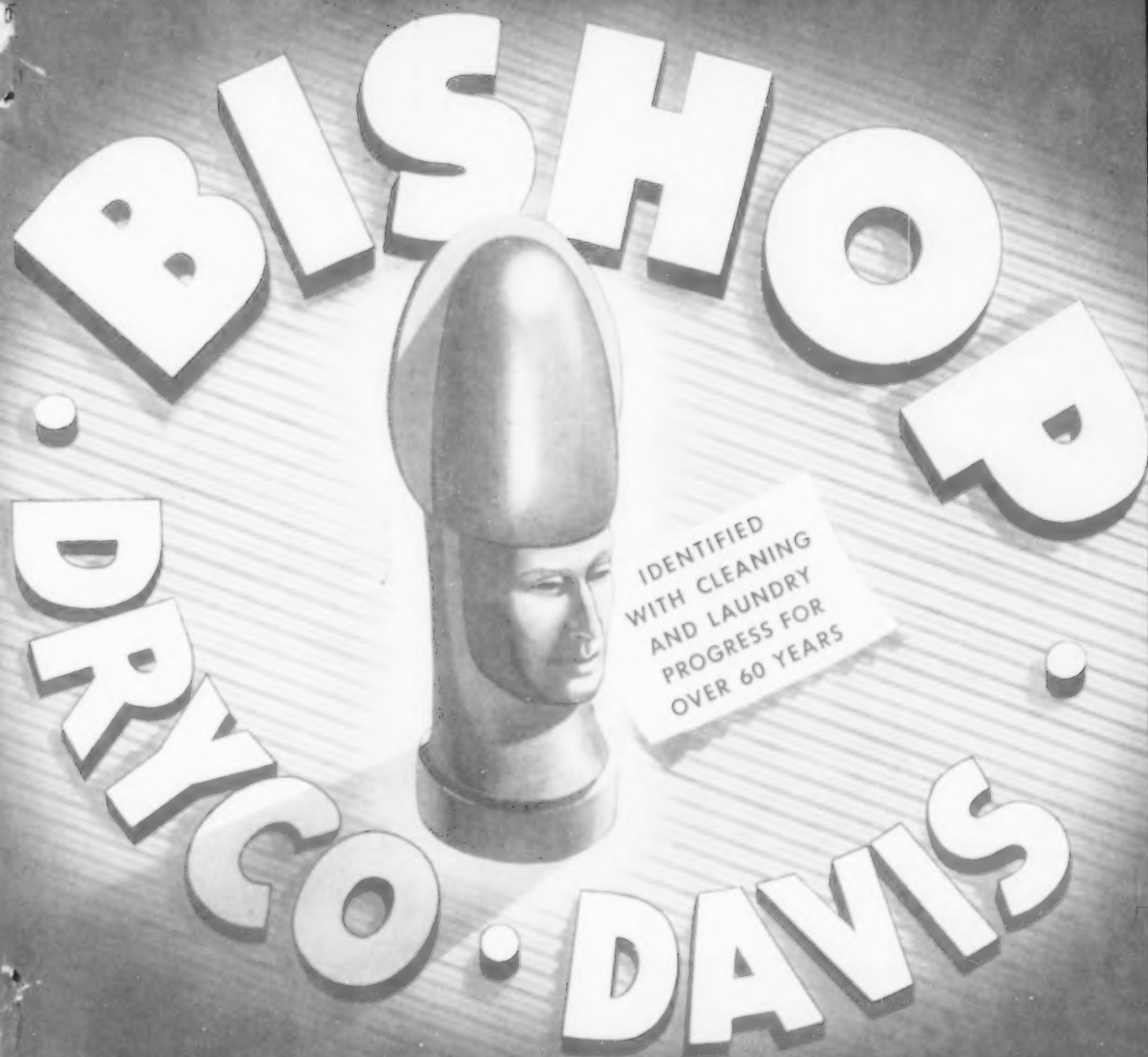


Johns-Manville HYFLO

THE ORIGINAL HIGH SPEED FILTER POWDER

NATIONAL CLEANER & DYER, April, 1954. Published monthly by the Trade Papers Division, The Reuben H. Donnelley Corp. Publication Office, 109 W. Chestnut Street, Lancaster, Penna., U. S. A. Executive and Editorial Offices: 304 East 45th Street, New York 17, N. Y. Subscription rates: United States and Canada, \$4.00; Foreign, \$6 per year. Volume 45, No. 4. Entered as 2nd class matter April 21, 1948, at the Post Office, Lancaster, Pa., under the Act of March 3, 1879.

COMBINED 1954 CATALOG



**DEPENDABLE, COST-CUTTING EQUIPMENT
FOR LAUNDRIES AND CLEANERS**

MOBILMARKR

TRUCK TUBS

STARCH
COOKERS

SORTING
REELS

SHIRT FOLD-
ING TABLES

SHIRT TRANS-
PORTERS

SORTER TRANS-
PORTERS

CLOTHES
CARTS

BAG-O-TEER

IRONING
BOARDS

WATER SPRA-
GUNS

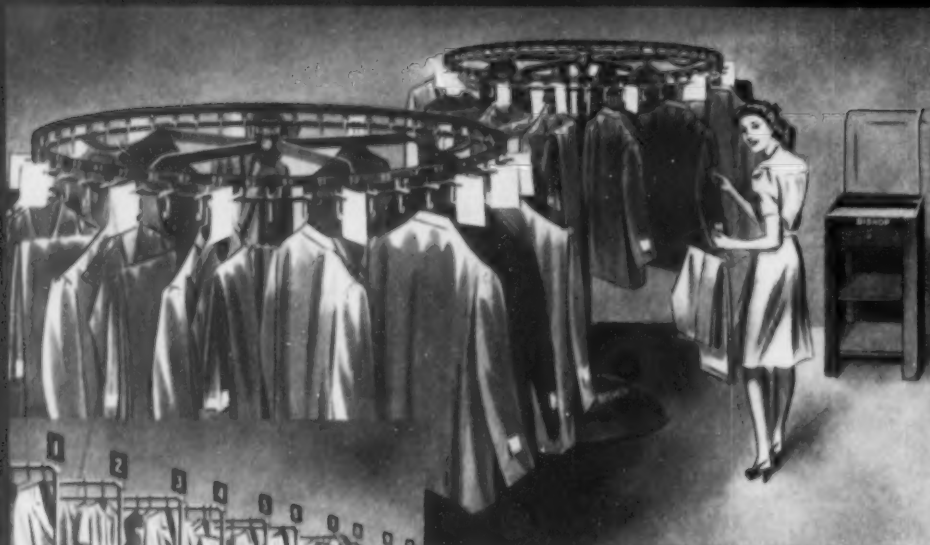
PUFFERS

STEAM ELEC-
TRIC IRONS

FLEXIBLE
HOSE

PRESS
PLATES

HOW BISHOP REELS SAVE YOUR OPERATOR 25 MILES PER DAY



The Bishop Way

With the Bishop method, no operator need walk a single step — a turn of the reel brings any garment or slot to her finger-tips. Note straggler rack at back of desk.



The Old Way

When the old system of sorting garments onto stationary racks is used, an operator walks from 18 to 36 steps to sort or locate each garment. When 400 garments are handled in an hour, an operator walks approximately 36,000 steps . . . 144,000 feet . . . or 26.26 miles in an eight-hour working day.

BISHOP REELS ARE ADAPTABLE TO ANY PURPOSE

ROUTE MEN

ROUTE
No 3

BRANCH STORES OR WILL CALL

STORE
No 5

CURTAINS, DRAPES, ETC.

CURTAINS
AND
DRAPES

Exclusive!

BISHOP NUMBER SELECTOR

3 NUMBERING COMBINATIONS ALL ON THE SAME REEL



POSITION A — movable band inside the 50-windowed numbering panel shows all numbers from 00 to 49.



POSITION B — grasp outer band, move inner band slightly to left, and numbers 50 to 99 appear in the windows.



POSITION C — move inner band slightly further to left and numbers 00-50 to 49-99 appear in the windows.



POSITION D — move still further to left and inner band is solid black for chalking in any other system you prefer.

NOW

AUTOMATIC GARMENT ASSEMBLING TWICE AS FAST—HALF THE SPACE with BISHOP Self Assembling

SORTING REEL



EACH SLOT SELF-ASSEMBLES 2 COMPLETE ORDERS. 50 SLOTS (100 ORDERS) TO EACH REEL

HOW TO USE

Match last 2 tag numbers to slot number—that's all.

MORE THAN DOUBLE THE VOLUME—handled in the same time by the same operator.

HELPS SOLVE EMPLOYMENT PROBLEM—old employees stay on job because work is lighter.

SAVES 25 MILES OF WALKING DAILY—eliminates carrying heavy garments long distances.

SAVES 50% IN FLOOR SPACE—takes less than half the space of straight racks.

COSTS NOTHING TO OPERATE—costs no power, needs no repairs, nothing to wear out.

BISHOP REELS CLEAR AS YOU GO—they fill and empty faster than straight racks.

PREVENTS "BURYING" OF GARMENTS—clothes swing free on rim of wheels always in view.

BISHOP REELS ADAPT TO ANY JOB—any size store, any system you are now using.

ADJUSTABLE HEIGHT—reels may be set at any height from 62 to 80 inches.

WON'T RUN TOO FAST—operator can set speed regulator at any speed she desires.

A COMPLETE, EFFICIENT WORK UNIT—two reels and desk a perfect unit for speed and efficiency.

Specifications

Diameter.....empty, 4 ft., loaded, 6 ft.
Floor space (loaded).....6 x 6 ft.
Capacity.....350 dresses or 200 suits
Height, adjustable from.....62 to 80 in.
Shipping weight.....total 170 lbs., desk 145 lbs.

Order Through

NO. B12-50 Self-Assembling Sorting Reel... \$125.00
NO. B12D INVOICE SORTING DESK & FILE

Your Jobber

NOW AVAILABLE WITH INVOICE HOLDING CLIPS
Set of 50.....9.50

**PATENTED
G. H. BISHOP CO.
EVANSTON, ILL.
(A SUBURB OF CHICAGO)**

MANUFACTURERS



SINCE 1893

**DON'T KEEP DRIVERS WAITING WHILE GARMENTS ARE BEING SORTED
BISHOP REELS GET GARMENTS TO DELIVERY RACKS HOURS FASTER**

CUT HANDLING

COSTS

IN HALF!

FROM TUMBLERS



TO SPOTTERS



TO PRESSERS



Garments lie flat, easy to finish, always within reach—no stooping or bending.

BISHOP CLOTHES CARTS

The Original Method That "Puts Your Handling on Wheels"

SPECIFICATIONS: Capacity 150-200 lbs. (2 to 3 open-end tumbler loads). Height 45" at ends; 18" wide, 38" long. Platform height adjusts from 23" to 35". Four 3" Neoprene swivel wheels. Ship. wt. each, 50 lbs. Model B2-100, F.O.B. Chicago.

New Low Price, only

\$29⁵⁰

Order Now FROM YOUR SUPPLIER

G. H. BISHOP CO.

EVANSTON, ILLINOIS
(SUBURB OF CHICAGO)



HE IS OUR DISTRIBUTOR

MANUFACTURERS SINCE 1893

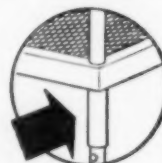


PATENTED

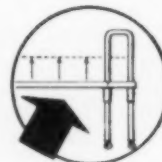
Paid for quickly out of the savings they provided in more than 5,000 cleaning plants, Bishop Clothes Carts have been proved the fastest, lowest-cost way to speed unfinished garments to spotters and pressers. Unequalled for durability, yet easiest to roll with heavy loads, completely maneuverable in narrow spaces and over rough floors. Rugged wheels last for years, never fall out, yet are easily replaceable. Bishop Clothes Carts help any plant turn out more work of finer quality in less time.

5 EXCLUSIVE FEATURES:

PERMANENTLY
RIGID
CONSTRUCTION
...no wobble
...no wiggle



ADJUSTABLE
HEIGHT
...no bending
...no lifting



SWING-AWAY
DIVIDER
...separates
one lot from
another...silks
from wools, etc.



LONG-LASTING
SOLID
NEOPRENE
WHEELS
...noiseless
...sparkproof
...free-rolling



"FLOATING"
**SPRING-
LOCKED**
CASTERS
never fall out



BISHOP BAG-O-TEER

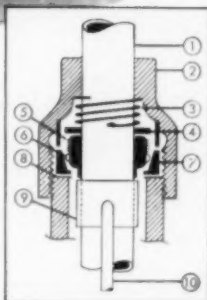
COMBINED BAGGER,
INVOICE DESK AND
BAG STORAGE RACK

SAVES TIME...
SAVES SPACE...
SAVES MONEY...

*Speeds Delivery
to Customers*

FEATURING
"Griptite"

BISHOP'S NEW
SENSATIONAL
SELF-ACTUATING
RAPID-ACTION
BAGGING ROD
CLAMP...



PROVED

**FOR POSITIVE HOLD
AND INSTANT RELEASE**

"The heavier the load, the tighter it grips." Bagging Rod (1) is engaged by "jaws" of three-piece clamp (5) with gripping power equal to "chuck" used on metal-working lathes. A ball bearing (6) in each "jaw" contacts slanting inner side of locking rim (7) under pressure from spring (3) and equalizing washer (4) to create rigid grasp on bagging rod. Slight upward push on release ring (9) attached to tripping rod (10) operated by foot pedal, separates "jaws" and allows rod to drop. The "Griptite"—contained in cap (2) of bagging stand and held in place by retaining ring (8)—is an exclusive BISHOP feature.

PAT. APP. FOR

**Bags MORE
Garments FASTER
with no walking...
no reaching...
no lifting!**

DRESS BAGS AND
SUIT BAGS AT
TOP, PANTS BAGS
JUST BELOW—
ALL THREE RIGHT
IN BAGGING
POSITION

BAGGING ROD ENGAGES
POSITIVELY AT ANY HEIGHT.
TELESCOPE INTO BAG STAND AT
HEIGHT OF ONLY 33" FOR EASY
REMOVAL OF BAGGED GARMENT

INVOICE DESK IS USED WITH-
OUT TAKING A STEP. MAY
BE SWUNG TO LEFT SIDE

CONVENIENT RACK
FOR EMPTY HANGERS,
STRAGGLERS, ETC.

RESERVE STORAGE
OF GARMENT BAGS

HEAVY NON-
TILT BASE

Every aid to fast, efficient, effortless bagging right at operator's fingertips in one compact, complete unit. All-steel, lifetime-built. Height 82". Desk, 24" x 13½", is 41" high. Bagging rod extends to 72" high. Base 24" diameter. Occupies floor space only 39" x 37"

No. 830-2, \$89.00

© 1951, G.H.B. Co.

LET THE SAVINGS PAY THE COST

G. H. BISHOP CO.
EVANSTON, ILL.



Order FROM YOUR SUPPLIER
MANUFACTURERS
SINCE 1893

UNIT SORTING INCREASES PRODUCTION 50%

Sorting by Folders Cuts Cost, Reduces Mix-Ups, Speeds Service



Unit sorting begins in the classifying-marking department. Shirts are separated and sent to the marker to be counted, listed and identified. Last number of mark indicates bundle number. Nine or ten bundles make a lot.



Entire 9- or 10-bundle lot of shirts goes to one shirt unit. When the folder completes a piece, she sorts it directly into proper bin in a Bishop 9- or 10-bin Sorter-Transporter. When folder finishes lot, all pieces are sorted.



Since all bundles have number ending in 1 to 9 or 1 to 0, sorting into bins numbered 1 to 9 or 1 to 0 is fast, easy... does not slow down folder's production. Completed lot goes to checker-wrapper without extra handling.



No sorting department needed. Checker-wrapper moves Bishop bins into position, checks each bundle of shirts against list, then wraps. Sorting by this system is faster, more accurate, less costly than by old method.

BISHOP SORTER-TRANSPORTERS

Save one handling of every shirt... cut hours per day from bundle processing time. Ten bins fit either 9- or 10-bundle system. Two types: For shirts (bins 10" wide, 13" high, 18" deep), No. 829-1010, \$69.00; for wearing apparel (bins 13" wide, 15" high, 18" deep), No. 829-1013, \$79.00. Ask for details.

**SEND
FOR
FREE
BOOK**

Clip this coupon today

G. H. BISHOP CO., 1600 Foster St., Evanston, Ill.

Please send full information on unit sorting system in which folders do the sorting; also details of Bishop Sorter-Transporters.

PLANT _____

BY _____ TITLE _____

STREET _____

CITY _____ STATE _____

OUR JOBBER IS _____

© 1953 GH8



G. H. BISHOP CO.

EVANSTON, ILL.

MANUFACTURERS SINCE 1893

THIS FASTER, EASIER FOLDING METHOD WILL
Break Your Shirt-Unit Bottleneck
and improve your quality 10 ways....

AT NO EXTRA COST

BISHOP Collar-Molding
SHIRT-FOLDERS

- 1** A Satin-smooth Inner Collar
- 2** No "Buckles" or "Bulges"
- 3** A Natural Neck-shaped Collar
- 4** A Collar that Stands Up
- 5** Collar Button Easy to Grasp
- 6** Collar Points Even and Flat
- 7** Easy Tie-slip When Tying
- 8** Perfectly Centered Buttons
- 9** Straight, Even Folds—Always
- 10** Shirt Bosom Is Smooth as Silk

FAMOUS BISHOP COLLAR MOLD

Does its quality-imparting work while operator is folding shirt. Heated automatic expanding mold (foot operated) gives the entire inner collar mirror-smooth finish and comfortable, molded edge. It irons out rough starch particles; stops irritating buckling and bulges.



HEART-SHAPE

Built-in expanding collar mold heart-shapes the collar to natural contour of the neck... gives the wearer "Collar Comfort All Day Long."

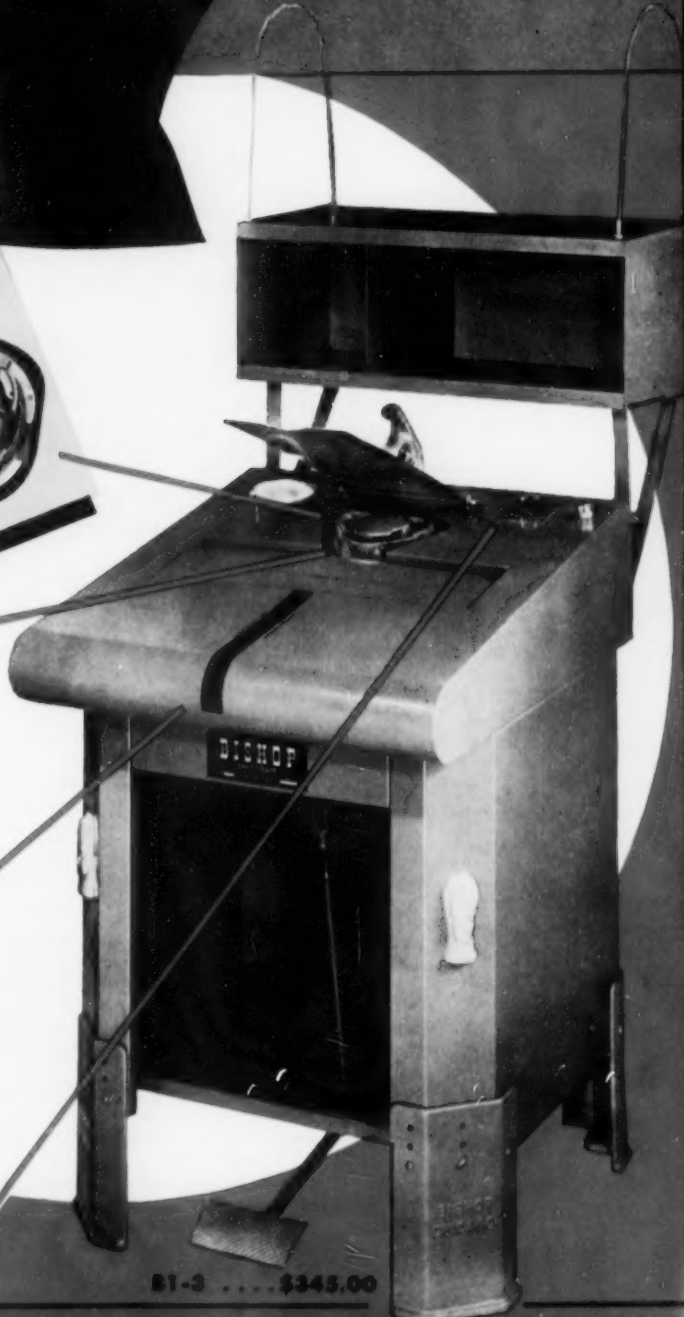


X-RAY GUIDE LIGHT

Built-in light shines through series of perforations in exact center of table top at front; enables operator quickly, perfectly to line up buttons and buttonholes for straight, unwrinkled folds.

REGULATED HEAT

Operator can vary temperature of the collar mold according to degree of collar dryness, type of fabric and speed of operation. Prevents scorching. Furnished with pilot light.



BT-3 \$345.00

Order Now FROM
 YOUR SUPPLIER

G. H. BISHOP CO., EVANSTON
 Manufacturers Since 1893



G.H. **BISHOP** CO.

MANUFACTURERS SINCE 1893

PRICE LIST

Feb. 10, 1954

Evanston, Ill.

Laundry and Cleaning Production Equipment

BISHOP LIFETIME DOUBLE-WALL STARCH COOKERS:

B3-2	BISHOP 15-Gallon COPPER STARCH COOKER, 24" x 27" x 39" high.....	\$289.00
B3-5	BISHOP 25-Gallon COPPER STARCH COOKER, 24" x 33" x 41" high.....	319.00
B3-11	BISHOP 50-Gallon COPPER STARCH COOKER, 30" x 37" x 44" high.....	375.00

BISHOP LIFETIME LAUNDRY WASHROOM TRUCK TUBS:

B2-9	BISHOP No. 2 STAINLESS STEEL WASHROOM TRUCK TUB, 22" x 34" x 25", with Steel Tread Casters, wooden drain board and outlet cock.....	\$195.00
B2-10	BISHOP No. 2 STAINLESS STEEL WASHROOM TRUCK TUB, same as above except with Rubber Tread Casters.....	207.00
B2-17	BISHOP No. 3 STAINLESS STEEL WASHROOM TRUCK TUB, 26" x 36" x 25", with Steel Tread Casters, wooden drain board and outlet cock.....	208.00
B2-18	BISHOP No. 3 STAINLESS STEEL WASHROOM TRUCK TUB, same as above except with Rubber Tread Casters.....	220.00
B2-1215	BISHOP Jr. STAINLESS STEEL TRUCK TUB, 18" x 24" x 15", tubular legs, drain valve, wooden drain board and 4 swivel casters—Over-all height 30".....	119.00
B2-122	BISHOP STAINLESS STEEL PREPARATION TRUCK, 18" x 25" x 11" deep, with 4 swivel casters—Over-all height 32".....	89.00

BISHOP LIQUID SOAPMAKERS:

B6-1	BISHOP 30-Gallon GALVANIZED LIQUID SOAP MAKER.....	\$129.00
B6-2	BISHOP 60-Gallon GALVANIZED LIQUID SOAP MAKER.....	167.00
B6-3	BISHOP 100-Gallon GALVANIZED LIQUID SOAP MAKER.....	179.00

Note: Each of the above soap makers equipped with drain faucet.

BISHOP LAUNDRY SORTING REELS:

B12-2	BISHOP 25-Arm LAUNDRY SORTING REEL.....	\$ 225.00
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BISHOP SHIRT AND WEARING APPAREL TRANSPORTERS:

B29-3	BISHOP 15-Bin SHIRT TRANSPORTER, 3 5-bin tiers; bins 10" x 15" x 18" deep; space: 54" x 20"; 54" high.....	99.00
B29-8	BISHOP 15-Bin WEARING APPAREL TRANSPORTER, 3 5-bin tiers; bins 13" x 15" x 18" deep; space 69" x 20"; 54" high.....	110.00
B29-20	BISHOP 20-Bin SHIRT TRANSPORTER, 4 5-bin tiers; bins 10" x 15" x 18" deep; space 54" x 20"; 70" high.....	109.00
B29-21	BISHOP 20-Bin WEARING APPAREL TRANSPORTER, 4 5-bin tiers; bins 13" x 15" x 18" deep; space 69" x 20"; 70" high.....	127.00
B29-30	BISHOP SHIRTRANSPORT "50", size: 23" wide, 18" deep, 51" high over-all, with 3" Neoprene wheels.....	35.00
	In lots of 6.....	36.00
	In lots of 3.....	37.00
B29-100	BISHOP SHIRTRANSPORT "100", 4 sections, each 10" x 18" x 30"; size of unit: 45" wide, 19" long, 51" high. Folds to 63" long, 4" wide, 51" high.....	59.00
	In lots of 6.....	60.00
	In lots of 3.....	61.00
B29-10	BISHOP 10- to 12-BUNDLE LOT COMBINATION WEARING APPAREL TRUCK, 4 compartments; unit 60" high, 50" long over-all.....	175.00
B29-11	BISHOP 3-SHELF WEARING APPAREL & SHIRT TRANSPORTER, size: 26" wide, 18" deep, 64" high over-all.....	45.00
B29-13	BISHOP PAK-AGE-KART, all steel 2-shelf truck; space 60" x 18"; 64" high, each shelf section 28" high.....	139.00

BISHOP LAUNDRY SORTERS—REVOLVING & REVERSIBLES:

B26-10	BISHOP REVOLVING LAUNDRY SORTER, 50-bin, diameter 66", height 70", each bin 20" wide, 11" high, 18" deep.....	349.00
B26-15T30	BISHOP TWIN 15-BIN REVERSIBLE SHIRT SORTER, total 30 bins, each 10" wide, 15" high, 18" deep; floor space 65" x 65".....	295.00
B26-15TWA30	BISHOP TWIN 15-BIN REVERSIBLE WEARING APPAREL SORTER, total 30 bins, each 13" wide, 15" high, 18" deep; floor space (turning area) 78" x 78".....	315.00
B26-20T40	BISHOP TWIN 20-BIN REVERSIBLE SHIRT SORTER, total 40 bins, each 10" wide, 15" high, 18" deep; floor space 65" x 65".....	325.00
B26-20TWA40	BISHOP TWIN 20-BIN REVERSIBLE WEARING APPAREL SORTER, total 40 bins, each 13" wide, 15" high, 18" deep; floor space (turning area) 78" x 78".....	345.00

BISHOP *Laundry* WORK-SAVERS

Cut costs — boost production and profit — give lifetime service



LIQUID SOAP MAKER

Saves time and supplies.
Galv. steel in 3 sizes:

30-Gal.	\$129.00
60-Gal.	\$167.00
100-Gal.	\$179.00



BISHOP JR. STAINLESS STEEL TRUCK TUBS

Won't rust, 18" x 24" x 15". Drain valve, drain board, 3" wheels.

Model No. B2-1215 \$119.00



BISHOP 3-SHELF TRANSPORTER

For finished work. 26" wide x 18" deep x 64" high.
Model No. B29-11. \$45.00



SORTING REEL

Assemble 25 bundles (150 nets) in 5 minutes in 10' x 10' area.

No. B12-2 \$225.00



STAINLESS STEEL PREPARATION TRUCK

Ideal damp box 18" x 25" x 11" deep, 34 1/2" high, on 3" wheels.
No. B2-122 \$89.00



IRONING BOARD

53" steel top; iron rest; sponge cup; cord holder; pilot light assembly, and sleeve board.

No. B4-5M \$99.00



BISHOP SHIRTRANSPORTS

Cut handling 1/2; fold up to save space. All steel. In 2 sizes:

B29-50 (for 50 shirts)	\$37.00
B29-100 (for 100 shirts)	\$61.00

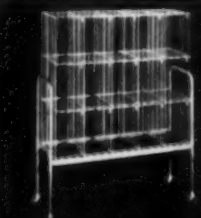
To Give You **LOWER COSTS...**
BETTER PROFITS for years to come!



No. B2-9 Bishop 22 Stainless Steel Truck Tub, 22" x 34" x 25" deep, with outlet cock, wood drainboard, steel tread wheels. \$195.00
No. B2-10 Same as above except with rubber-tread wheels. \$207.00
No. B2-17 Bishop 23 Stainless Steel Truck Tub, 26" x 36" x 25" deep, with outlet cock, wood drainboard, steel-tread wheels. \$208.00
No. B2-18 Same as above except with rubber-tread wheels. \$220.00

BISHOP *Lifetime* STAINLESS STEEL TRUCK TUBS

Washes and workers are SAFE when your loads are handled in Bishop Truck Tubs. Made of strong and tough stainless steel, they can't rust or corrode... can't spot or stain the wash... are not affected by wash-room chemicals... no roughness or splinters to snag fabrics and fingers. Rounded corners mean easier, safer unloading; no punctured washer shells. Heavily built for roughest year-in and year-out use, yet properly balanced on smooth-rolling wheels to handle with greatest ease (5" sleeve-bearing wheels at sides, 4" ball-bearing swivel wheels at ends). Available in two sizes, either steel or rubber tread.



SORTER-TRANSPORTERS

Banish fixed bins; admit light, air. 15 or 20 bins for shirts, for apparel. Write for details, prices.



BISHOP PUFF-FINISHERS

Heads tilt over board; no reaching. B5-18X (shown): #3, #22, #52 heads, spray iron, spray gun.

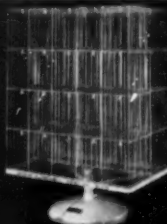
..... \$209.00



REVOLVING SORTER

50 bins in arm's reach to sort twice as fast in half space. Turns at flick of finger; holds 500 shirts. Won't tip.

No. B26-10 \$349.00



REVERSIBLE BINS

Sort into one side, wrap out on other. Cut steps, handling. 15 or 20 bins per side. Ask for details.

15-Bin for shirts.	\$295.00
for wear. apparel.	\$315.00
20-Bin for shirts.	\$325.00
for wear. apparel.	\$345.00

BISHOP STARCH COOKER

The laundry industry's standard since 1893. Durable built of non-corrosive copper (the perfect heat conductor) for years of continuous service. Inner and outer walls scientifically spaced, permanently insulated, to prevent sweating and heat radiation. Holds heat in; keeps starch always at right temperature for proper fabric penetration. Exclusive Bishop-designed steam nozzle keeps starch agitated; stirs thoroughly, speeds cooking.

Cooked Starch IS BETTER STARCH

Cooked starch dries faster, more uniformly, on the press to save costly time... helps produce shirts and wearing apparel with the better "feel" and smoother finish of real quality — no ugly shine, no blisters. Cooked starch is more economical, too—goes 15% to 20% further than raw starch.

Order Now FROM YOUR SUPPLIER



3 POPULAR SIZES

15-GALLON—36" high overall, floor space 24" x 28", ship wt. 175 lbs. B3-2	\$385.00
25-GALLON—36" high overall, floor space 28" x 32", ship wt. 225 lbs. B3-5	\$319.00
50-GALLON—45" high overall, floor space 32" x 36", ship wt. 280 lbs. B3-11	\$375.00

G H BISHOP CO.

EVANSTON, ILLINOIS

MANUFACTURERS



G.H. **BISHOP** CO.

MANUFACTURERS SINCE 1893

Laundry and Cleaning Production Equipment

PRICE LIST

Feb. 10, 1954

Evanston, Ill.

BISHOP SHIRT FOLDING & FINISHING TABLES:

Any of the below models can be furnished in 110 or 220 V. AC.
Be sure and specify proper voltage and shirt blade size.

B1-3	DRESS SHIRT—BISHOP FRONT FOLD—FOOT OPERATED Heated Expanding (Heat Regulated) Collar Mold—X-Ray Guide Lights on Table Top—Folding Blade, Pilot Light and Switch.	\$345.00
B1-30	DRESS SHIRT—BISHOP FRONT FOLD—FOOT PEDAL CONTROLLED, AIR OPERATED , Heated Expanding (Heat Regulated) Collar Mold—X-Ray Guide Lights on Table Top—Folding Blade, Pilot Light and Switch.	395.00
B1-3012	DRESS SHIRT—BISHOP FRONT FOLD—TABLE TOP CONTROLLED, AIR OPERATED Heated Expanding (Heat Regulated) Collar Mold—X-Ray Guide Lights on Table Top—Folding Blade, Pilot Light and Switch.	445.00
B1-32	DRESS SHIRT—BISHOP FRONT FOLD—PEDESTAL, FOOT OPERATED Heated Expanding Collar Mold—Folding Blade.	299.00
B1-34W	DRESS SHIRT—BISHOP SIDE FOLD—PEDESTAL, FOOT OPERATED , Heated Expanding Collar Mold—With Padded Top—Folding Blade.	265.00
	Above unit can be furnished with iron and control box for an additional.	39.50
B1-01	BISHOP SHIRT ATTACHMENT FOR FLAT FOLDED COLLARS adaptable on any BISHOP table.	20.00

BISHOP PUF-FINISHERS:

B5-5TM	BISHOP PUFFER HEAD NO. 3 , mounted on stand for table mounting (6¼" x 3¼").	\$ 29.00
B5-9TM	BISHOP PUFFER HEAD NO. 22 , mounted on stand for table mounting (5" x 8").	34.00
B5-12TM	BISHOP PUFFER HEAD NO. 52 , mounted on stand for table mounting (2" x 4").	23.00
B5-17X	BISHOP 4-HEADED PUF-FINISHER TWIN SLEEVE , with 2 No. 22, 1 No. 3 and 1 No. 52 Head, with Spray Gun and Vapor Spray Iron.	239.00
B5-18X	BISHOP 3-HEADED PUF-FINISHER—Family Finish —with 1 No. 22, 1 No. 3, and 1 No. 52 Head, with Spray Gun and Vapor Spray Iron.	209.00
B5-23	BISHOP 2-HEADED PUF-FINISHER (1 No. 3, and 1 No. 22) no spray gun or iron.	107.00
B5-24	BISHOP 3-HEADED PUF-FINISHER (1 No. 3, and 1 No. 22 and 1 No. 52), no spray gun or iron.	139.00

BISHOP FIREPROOF IRONING BOARDS:

B4-5M	BISHOP ALL-STEEL LAUNDRY IRONING BOARD , with sleeve board, electric control box, cord bracket, sponge cup and iron rest.	\$ 99.00
B4-6M	BISHOP ALL-STEEL LAUNDRY IRONING BOARD , with sleeve board, sponge cup and iron rest.	89.00
	Note: If garment protector required for either of above models, \$10.00 additional	
B4-12	BISHOP STEAM HEATED DRY CLEANER'S METAL IRONING BOARD	\$ 79.00

BISHOP GARMENT RACKS:

B24-1	BISHOP SINGLE GARMENT RACK , 6 ft. 22 wide, 72" long, 70" high over-all; of electro-galv. pipe; 3" Neoprene wheels.	\$ 38.00
B24-2	BISHOP DOUBLE GARMENT RACK , 6 ft. 24" wide, 72" long, 70" high over-all; of electro-galv. pipe; 3" Neoprene wheels.	44.00

BISHOP MOBILMARKR:

B2-131D	BISHOP MOBILMARKR "Master" (with Swing-a-way Desk).	\$295.00
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BISHOP PANTS CART:

B2-112	BISHOP PANTS CART , mounted on wheels.	29.50
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BISHOP SPOTTING TUB:

B20-1	BISHOP SPOTTING TUB , with stainless steel top board; tub of galvanized iron, angle iron legs, removable screen and drain-off valve and solvent receptacle.	\$249.00
-------	---	-----------------

BISHOP DRY CLEANERS TRUCK TUB:

B2-29G	BISHOP NO. 9G GALVANIZED DRY CLEANER'S TRUCK TUB , 22" x 34" x 19". Sparkproof casters, metal drain board and outlet cock.	178.00
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BE SAFE

in hand-finishing the
heat-sensitive fabrics

DrycoMatic
THUMB-OPERATED
STEAM-ELECTRIC IRON



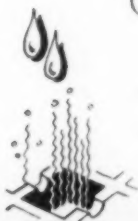
Holds heat within 248° to 269° (AT LOW SETTING)
with NO WATER SPOTTING!



IF YOU COULD LOOK
INSIDE YOU'D KNOW



STEAM MUST
TRAVEL FROM
TRAP TO TRAP
TO REACH THE
OUTLET



ANY DROPS OF
WATER IN THE
INCOMING STEAM
VAPORIZE WHEN THEY
HIT THE HOT TRAPS
IN THE SOLEPLATE

New fabrics
can be ruined by high heat

Textile authorities name 275° as the top limit for ironing most synthetic fabrics. Higher heat may cause permanent damage—fused fibers, ugly glaze—that will result in expensive claims.

**DrycoMatic's Temperature
always under safety limit**

Precision-built thermostat on the DrycoMatic Iron maintains a temperature, at low setting, within the range of 248° to 269°—safely below heat limit named by synthetic fiber producers.

Finish better...20% faster!



Finishers are freed from obsolete foot pedal; have greater working range. Their fatigue is cut 50%.

NO HEAT IN OPERATOR'S FACE

Unique soleplate design permits small separator, mounted below the board, for cooler operation.

STOPS FOOT-PEDAL FUMBLING...CUTS FATIGUE 50%



DrycoMatic Thumb-Operated Steam-Electric Iron, complete with Speedway Assembly: includes cord, steam hose, Cord-A-Way arm, solenoid valve, pilot light, separator, mounting bracket, ready to install.

MODEL 6330 (3-lb.) \$82⁵⁰
MODEL 6360 (6-lb.)

Order Now FROM YOUR SUPPLIER

Dryco CORPORATION

DRYCO EQUIPMENT
COSTS ONLY A FRACTION
OF WHAT IT SAVES

© 1953

EVANSTON, ILLINOIS
(SUBURB OF CHICAGO)

DRYCO Corporation QUALITY EQUIPMENT FOR 23 YEARS

DRYCO WATER SPRAY GUNS, ATTACHMENTS AND SPOTTING GUNS:

	List Price
DRYCO SPRAY GUN—PISTOL TYPE	10.95
Includes spray gun, 5 ft. hose, valve and suspension spring.....	Model S
DRYCO SPRAY GUN—HEAVY DUTY SHIRT AND FLAT WORK TYPE	15.95
Includes spray gun, 5 ft. hose, valve and suspension spring.....	Model BL
DRYCO PRODUCTION SPRAYER WITH CONDENSER	24.90
Includes galvanized pipe standard, flange, copper tubing, fittings, mounting hardware, and Model F water spray gun with condenser.....	Model PSCF
DRYCO PRODUCTION SPRAYER	16.95
Includes galvanized pipe standard, flange, copper tubing, fittings, mounting hardware and Model F water spray gun.....	Model PSF
DRYCO PRODUCTION SPRAYER LESS SPRAY GUN	6.00
Includes galvanized pipe standard, flange, copper tubing, fittings and mounting hardware.....	Model PSA
DRYCO CONDENSER-PURIFIER	7.95
Model C	
DRYCO SPRAY IRON GUN	15.65
Includes water spray gun for mounting through iron handle, hardware, hose and clamps.....	Model H
DRYCO TWO-BRUSH STEAM SPOTTING GUN	11.95
Model 3050	
DRYCO ONE-BRUSH STEAM SPOTTING GUN	9.95
Model 3040	
DRYCO NO-BRUSH STEAM SPOTTING GUN	5.95
Model 3030	

DRYCO STEAM-ELECTRIC IRONS AND ASSEMBLIES:

DRYCO FOOT-OPERATED STEAM-ELECTRIC IRON WITH SPEEDWAY ASSEMBLY	65.00
Complete with steam-electric iron, Cord-a-way Arm, cord, hose, rest, pilot light, switch, steam separator, and foot pedal.....	3 lb. iron Model 6030
	6 lb. iron Model 6060
DRYCO FOOT-OPERATED STEAM-ELECTRIC IRON	33.00
Includes cord and iron.....	3 lb. iron Model 6033
	6 lb. iron Model 6065

DRYCO SPRAY IRONS AND ASSEMBLIES:

DRYCO WATER SPRAY IRON WITH SPEEDWAY ASSEMBLY	54.00
Complete with combination steam-electric and water spray iron, Cord-a-way Arm, cord, hose, rest, pilot light, switch.....	3 lb. iron Model 6530
	4½ lb. iron Model 6540
DRYCO WATER SPRAY IRON	29.50
Includes electric iron with water spray gun through handle, cord, hose and rest.....	3 lb. iron Model 6533
	4½ lb. iron Model 6544
DRYCO STEAM-ELECTRIC WATER SPRAY IRON WITH SPEEDWAY ASSEMBLY	88.00
Complete with combination steam-electric and water spray iron, Cord-a-way Arm, cord, hose, rest, pilot light, switch, steam separator, water connectors, foot pedal.....	3 lb. iron Model 6130
	6 lb. iron Model 6160
DRYCO COMBINATION STEAM-ELECTRIC AND WATER SPRAY IRON	49.50
Complete with steam-electric iron with water spray gun through handle, cord, and hose.....	3 lb. iron Model 6133
	6 lb. iron Model 6166

DRYCO STEAM PUFFERS (FOOT OPERATED):

DRYCO FOUR-HEAD PUFFER SET	195.00
Includes two (32" x 14") double tables with No. 1 egg, No. 2 small shoulder, No. 3 sleever and No. 4 mushroom.....	Model 1004
DRYCO THREE-HEAD PUFFER SET	157.00
Includes (48" x 14") triple table, with No. 1 egg, No. 3 sleever and No. 4 mushroom.....	Model 1003
DRYCO TWO-HEAD PUFFER SET	99.00
Includes (32" x 14") double table with No. 1 egg, & No. 3 sleever.....	Model 1002
DRYCO EGG HEAD PUFFER	45.00
Includes (16" x 14") table with No. 1 egg head.....	Model 1011
DRYCO LARGE EGG PUFFER	49.50
Includes (16" x 14") table with No. 1½ large egg head.....	Model 1011½
DRYCO SMALL SHOULDER PUFFER	50.00
Includes (16" x 14") table with No. 2 small shoulder head.....	Model 1012
DRYCO SLEEVER PUFFER	58.00
Includes (16" x 14") table with No. 3 sleever head.....	Model 1013
DRYCO EXTRA LONG SLEEVE PUFFER	65.75
Includes (16" x 14") table with No. 3A long sleever head.....	Model 1013A
DRYCO MUSHROOM PUFFER	60.50
Includes (16" x 14") table with No. 4 mushroom head.....	Model 1014

Dryco

SHOULDER PUFFERS

Finish Shoulders Better...

3 Times Faster

AND SAVE FOUR TIMES
THEIR COST EVERY YEAR



**MEN'S COAT
SHOULDER
PUFFER**

Features No. 10 Dryco
puffer head, special-
ly designed so op-
erator can finish
men's coat shoul-
ders in just one lay.

MODEL 1016
Complete with No. 10 puffer
head, valve, pedal assembly
and 16" x 14" enameled ta-
ble on sturdy base. Ship. wt.
37 lbs. **PRICE \$5950**

NO EFFORT, NO SHINE... when you
finish shoulders on these scientific-
ally designed, polished puffer heads.
Save up to 12 seconds per shoulder.
Perfect also for removing underarm
wrinkles, and crotch wrinkles from
trousers. Put a Dryco Puffer along
side each press... improve produc-
tion, increase profits.

PUFF
and it's done!
**TAKES ONLY
6 SECONDS
per shoulder**



**LADIES'
and MEN'S
SHOULDER
PUFFER**

No. 5 utility head
handles shoulders
and sleeves of both
ladies' and men's
garments.

MODEL 1015
Complete with No. 5 puffer
head, valve, pedal assembly
and 16" x 14" enameled ta-
ble on sturdy base. Ship. wt.
38 lbs. **PRICE \$5950**

Order Now FROM YOUR SUPPLIER

Dryco CORPORATION

Get More Moisture...
Boost Production...
Cut Costs...with

Dryco

E-Z-SQUEEZE

Proven

WATER SPRAY GUN
Model F



Instant
Moisture...
Where you
want it...
When you
want it!



**Unsurpassed for
High-Speed Dampening
of Fabrics at Presses
and Finishing Boards**

Used and preferred by plants everywhere for 25 years.
Fastest, easiest to operate. Trigger extends along en-
tire side. Hangs with spray end down, suspended by
coil spring (furnished)... ready for use, yet out of
the way. Operates on city water pressure or from
Dryco Condenser on return line. Exclusive adjustment
to regulate spray. No drip. Gives years of service.

MODEL F—Dryco E-Z-Squeeze Water Spray Gun,
complete with 5 ft. of durable rubber hose, coupling,
shut-off valve and suspension spring,
ready to attach. **\$1095**

DRYCO EQUIPMENT
COSTS ONLY A FRACTION
OF WHAT IT SAVES

EVANSTON, ILL.
(SUBURB OF CHICAGO)

Here are the
FACTS
about
"hothead"
press plates

THEY ARE ONLY
A *SUBSTITUTE*
FOR HOthead
PRESSES...
THEY CANNOT
REPLACE THEM

Hothead presses have high heat because their entire head is one big "chest" filled with steam. But a steam-head press has a smaller steam chamber, separated from the presshead face. Any smooth plate fitted on this head gets conducted heat only, and therefore is as much as 100° cooler than the face of a hothead press, and its finishing therefore is proportionately slower.

FACE TEMPERATURE

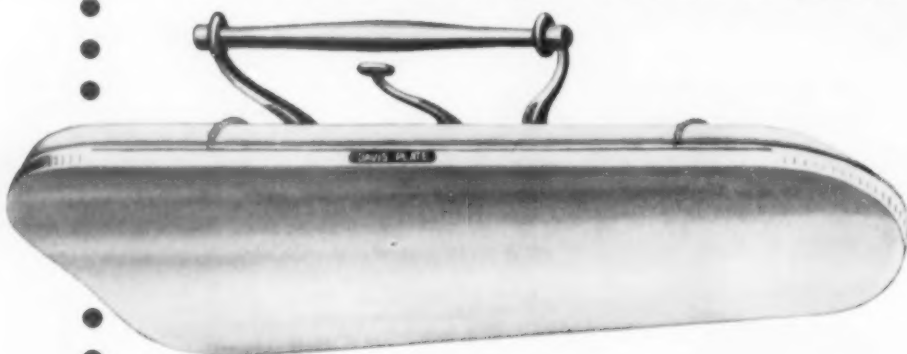
AT 65-75 LBS. STEAM PRESSURE

HOTHEAD PRESS	300-315°
UNPERFORATED PRESS PLATE	215-225°

Thus no steam-head press, fitted with a smooth, unperforated plate, can equal the heat or duplicate the performance of a true hothead. The smooth plate, used interchangeably with a conventional perforated plate, does permit one press to be used for both steam and "hothead"-type pressing satisfactorily.

Davis Polished Plate

FOR HOthead—
TYPE PRESSING



*Enables plants with limited volume
of cottons, linens and glazed fabrics
to do them on steam-head presses*

Certain hard-surfaced, lustrous or glazed fabrics, and many garments which have been washed or wetcleaned, look best when finished by a hothead press or hand iron. But a plant's volume may be too small to justify a hothead press, while hand-ironing is relatively slow and expensive. For such plants, the Davis "Polished Plate," made of smooth, unperforated aluminum, is the ideal compromise. Quickly interchangeable with the Davis Fabric-Renewing (perforated) Press Plate, it makes a steam-head press more versatile...lets it substitute effectively for a hothead press.

Reduces Hand-Ironing Costs

The "Polished Plate" (made by Davis since 1934) speeds finishing of skirts, shirts and similar garments where large fabric areas can be pressed in one lay, reducing the amount of hand-ironing required. Available for all makes and models of drycleaning presses. Specify Model PP when ordering. Priced same as perforated plates:

DAVIS POLISHED PLATE

38" to 46" utility press sizes	\$14.85
47" to 54" sizes	\$19.25
Mushroom sizes	\$11.00

Always Order



... the **ORIGINATORS** of press plates

MANUFACTURERS . . . EVANSTON, ILLINOIS
(Suburb of Chicago)

NEW Invention Makes Steam **SAFE** for 100% Pressing Satisfaction on all Fabrics

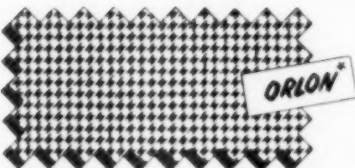
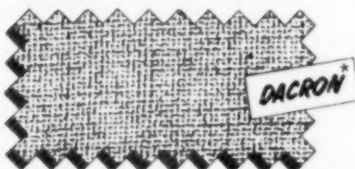
You need BOTH!

- ★ Davis Nev-R-Spot Liner Plate
- ★ Davis Fabric-Renewing Press Plate



PATENTED AND
PATENT PENDING

Finishes the newer fabrics
quicker... easier... better



THE PERFECT PAIR FOR PERFECT PRESSING

Like the need for both a right and left hand, it takes both the Davis Nev-R-Spot Liner Plate and the Davis Fabric-Renewing Press Plate to get complete satisfaction from a press. The Nev-R-Spot Liner Plate provides the soft, moist, uniform blanket of steam that eliminates any possibility of steam marks. The Fabric-Renewing Press Plate lifts the nap as it presses, to revive the fabric and give the garment a like-new finish... and does it a lot faster than any other method of finishing.

The Davis NEV-R-SPOT Liner and the Davis Press Plate complement each other. With the steam from this matched combination you can safely press the difficult new fabrics such as Dacron and Orlon, as easily and as beautifully as worsteds and woolens.

Make doubly sure of always getting the quality that builds goodwill and the quantity that builds profits, by equipping every press with a Davis Nev-R-Spot Liner Plate and a Davis Fabric-Renewing Press Plate. They cost so little... but they do so much!

*"Dacron" is DuPont's trademark for polyester fibers.
Orlon" is DuPont's trademark for acrylic fibers.

There's a Davis Plate and Nev-R-Spot Liner for Every Make and Model of Drycleaner's Press

HOFFMAN PRESSES	PRESS PLATE	NEV-R-SPOT LINERS	PROSPERITY PRESSES	PRESS PLATE	NEV-R-SPOT LINERS	FORSE-LOYAL-FLETCHER	PRESS PLATE	NEV-R-SPOT LINERS
XC05, VC05, MC05, VC056, VC06	\$14.85	\$10.95	443-EA, 343A, 237A, 241A	\$14.85	\$10.95	18"	\$11.00	\$ 8.95
XC07, VC07, KB0, MA0	14.85	10.95	242, 243, 442EA, 250EA, 250A, LD50	19.25	13.95	42", 45"	14.85	10.95
XCFS, VCF5, VCF56, VCF56	14.85	10.95	318EA, 218A, 419, 720	11.00	8.95	51"	19.25	13.95
SA, 6A, 7A, 8A	14.85	10.95						
XC09, XC090, VC09, VC090	19.25	13.95						
XC04, VC04, VCF4, VCF4	19.25	13.95						
XE4, VE4, XE90, VE90, XE10, XE100	19.25	13.95						
XW1, VW1, XW12, XW78, XB10, VB10	11.00	8.95						
PANTEX PRESSES	PRESS PLATE	NEV-R-SPOT LINERS	NEW YORK PRESSES	PRESS PLATE	NEV-R-SPOT LINERS	GOLDMAN (SINGER)	PRESS PLATE	NEV-R-SPOT LINERS
48-OC, 41-OC15, 41-O, 45-OC, 45-OA	14.85	10.95	RSW42, NSW42, R42, N42, R450, N450	14.85	10.95	SV42-O, E242-O, SV45-O	14.85	10.95
45-O, 45-OE, S-45-O, 45-OC9, OC-13	14.85	10.95	R32, N32, NL4, N-48-O	19.25	13.95	SV52-O	19.25	13.95
M-32, M43-F, S-43-O, SM44-F	19.25	13.95	NM1, NM2, NT10, RM1, RM2, RT10	11.00	8.95			
19-DO, M-24-O, 15-DO	11.00	8.95						
BUTLER PRESSES	PRESS PLATE	NEV-R-SPOT LINERS	ELCCO PRESSES	PRESS PLATE	NEV-R-SPOT LINERS	AJAX PRESSES	PRESS PLATE	NEV-R-SPOT LINERS
18"	11.00	8.95	18"	11.00	8.95	18"	11.00	8.95
42", 45"	14.85	10.95	42", 45"	14.85	10.95	42", 45"	14.85	10.95

Also all other makes and models. When in doubt send paper pattern of press head (after removing cover).

Davis

SPECIALTIES INC.

EVANSTON, ILLINOIS (SUBURB OF CHICAGO)

BRONZE...FLEXIBLE...TROUBLE FREE... DAVIS Leak-Pruf flexible HOSE

NO PACKING—NO LEAKY JOINTS

PATENT PENDING

EFFECTIVE SEPT. 1, 1953

FOR ALL DRY CLEANING PRESSES

for HOFFMAN Presses all models

TYPE MF22— $\frac{3}{4}$ x 22" fits Hoffman (all models except Klear-Buk), also Butler, Forse and Singer presses.....Each \$5.50

(Male fitting and floating flange)

TYPE FF22— $\frac{3}{4}$ x 22" fits Pantex presses.....Each \$5.95

TYPE FF24— $\frac{3}{4}$ x 24" fits Pantex presses.....Each \$6.15

(Floating flanges attached to both ends)

TYPE MM24— $\frac{3}{4}$ x 24" fits New York presses.....Each \$5.50

TYPE MM22— $\frac{3}{4}$ x 22" fits presses reconverted from swivel joints to flexible hose.....Each \$5.25

(Male fittings attached to both ends)

FOR ALL LAUNDRY PRESSES

TYPE MF26— $\frac{3}{4}$ x 26" fits American and Prosperity.....Each \$6.05

TYPE MF27— $\frac{3}{4}$ x 27" fits American and Prosperity.....Each \$6.15

TYPE MF28— $\frac{3}{4}$ x 28" fits Unipress, American and Prosperity.....Each \$6.35

TYPE MF29— $\frac{3}{4}$ x 29" fits Unipress, American and Prosperity.....Each \$6.45

TYPE MF30— $\frac{3}{4}$ x 30" fits American and Prosperity.....Each \$6.60

(Male fitting and floating flange)

FOR OTHER LAUNDRY PRESSES

Male fitting and union coupling

TYPE MU22— $\frac{1}{4}$ x 22" fits Prosperity Pony.....Each \$5.25

TYPE MU24— $\frac{1}{4}$ x 24" fits Prosperity Pony.....Each \$5.45

TYPE AU23— $\frac{1}{4}$ x 23" fits Ajax or Super.....Each \$5.35

TYPE MU29— $\frac{1}{4}$ x 29" fits Unipress.....Each \$5.90

All Flanges Have 2-inch Centers

TYPE SE—Steam Eel connectors modernize presses originally equipped with swivel joints. One size fits all presses. $\frac{3}{4}$ I.D. with $\frac{3}{4}$ male coupling on one end and $\frac{3}{4}$ male adapter with flared type swivel on other end. Flexible tubing 21" long; copper tubing 18" long; can be bent by hand to proper shape (not less than 5" dia.).....Each \$6.50

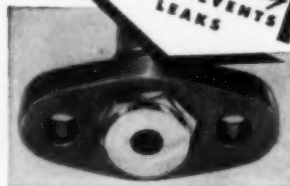
AVAILABLE IN SIZES TO FIT ALL PRESSES

When ordering, specify make and model of press

ORDER FROM YOUR SUPPLIER TODAY

MANUFACTURERS, EVANSTON, ILLINOIS
(SUBURB OF CHICAGO)

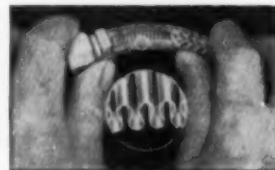
EXCLUSIVE
MIRROR-SMOOTH
MACHINED SEAT
Seals instantly
AND PREVENTS
LEAKS



DAVIS MIRROR-SMOOTH SURFACE
ASSURES A LEAK-PROOF SEAL

Davis Leak-Pruf fitting is the only one that has a mirror-smooth surface permitting a perfect seal—no leakage. It has a floating flange that allows faster attaching of hose. It eliminates any twist in hose when final assembly is completed.

PERMANENTLY LEAKPROOFED



NOTE HELICALLY-CORRUGATED
SEAMLESS WALL STRUCTURE OF
DAVIS FLEXIBLE HOSE

Here's the Davis helically-corrugated Seamless Flexible Tube. It's tough, corrosion-resistant, leakproof. And its helical construction gives it greater flexibility and longer life in such critical applications as laundry and drycleaning presses. For leakless service, Davis Hose fittings have metal-to-metal seat. Tight seal is produced through spring washer effect of hose on fitting body.

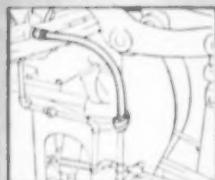


TYPE CF—Companion
flange (with bolts and
gasket).....\$1.00

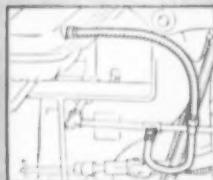


TYPE SPDM—Dual man-
ifold for presses having
single port for steam
inlet and return.
Each.....\$2.30

PRICES SUBJECT TO
CHANGE WITHOUT NOTICE

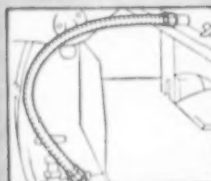


TYPE MF—for Hoffman, Butler, Forse and Singer presses, all models.



TYPE SE STEAM EEL—Combination of flexible hose and copper tubing.

ANY LENGTH WITH ANY
TYPE FITTING MADE TO
SPECIAL ORDER



TYPE MU—Installed above on a regular laundry press.



TYPE MU—Illustrated here on a collar and cuff press.

Davis
SPECIALTIES INC.

NO OTHER SYNTHETIC CHARGE
CAN GIVE YOU CLEANER, BRIGHTER
LINT-FREE* CLEANING

BUCKEYE *Clean-Charge*

HIGHLY ECONOMICAL! EQUALLY EFFECTIVE FOR BOTH
SINGLE *or* TWO BATH SYSTEMS!

**COMPARE THESE
ADVANTAGES:**

- Results in lint-free cleaning!
- Reduces distillation time and expense!
- Classification time is greatly reduced!
- Assures accurate moisture control!
- Greater percentage of undesirable soil is removed!
- No discoloration problem is possible!
- No undesirable odors!
- Spotting and wet cleaning time is reduced to a minimum!
- Outstanding for its ease of operation!
- Solvent remains light and clear!

*patent applied for...
product and process

Thousands of dry cleaners throughout the United States and Canada have successfully installed Buckeye Clean-Charge.

This wonderful, new synthetic product has been designed to meet the requirements of all dry cleaners . . . large or small . . . synthetic or petroleum solvent systems . . . single or two bath equipment! Write today for further information on Buckeye Clean-Charge!



Producers of Quality Products for the Cleaning and Laundry Industry Since 1844

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CLEANER & DYER

VOLUME 45
NUMBER 4
APRIL, 1954

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Simplified Spotting Chart

RED background for WET spotting

Rinse or feather with water or steam gun

BLACK background for DRY spotting

Rinse in solvent with filter circulation

GROUP A

Albumen
Blood
Discharge
Food, starch,
sugar, sweets
Glue
Ice Cream
Mud
Perspiration
Water marks

Protein formula

11 parts Mulsolite
1 part 26° Ammonia

Prespotter

1 part Cyclo or 886
1 part Solvent
1 part Water

Powdered digester

R.S.R.
Mfd. by Wallerstein Co.

GROUP B

Beer
Coffee
Dye stains
Fruit juice
Grass stains
Liquor
Medicine
Soft drinks
Tea

Tannin formula

1 part Mulsolite
1 part GEN'L FORMULA No. 209

Powdered stripper

STREEPENE
for whites only

GROUP C

Inks

Tannin formula

alternated with

Protein formula

Straight Pyratex

Marking and ball pen ink

Streepene

for whites only

GROUP D

Rust
AND OTHER
IRON
COMPOUNDS

Erusticator

Mfd. by Penn. Salt Mfg. Co.

Tannin formula

for weighted silks

Streepene

for whites only

GROUP E

Asphalt
Bottom streaks
Grease
Oil
Paint
Pitch
Tar
Varnish

Dry spotter

1 part PYRATEX
1 part SOLVENT

Wet spotter

1 part PYRATEX
1 part WATER

Dry spotter

1 part CYCLO or 886
2 parts PICRIN

Volatile-dry

Straight PICRIN
for touch-ups

GROUP F

Collodion
AIRPLANE DOPE
ENAMEL
LACQUER
NAIL POLISH
NEW SKIN
Lipstick*
Rouge
Shoe polish

Wet spotter

1 part PYRATEX
1 part WATER

Collodion remover

Straight PYRATEX

New Chevrolet Trucks

deliver hour-saving power
that saves you money, too!



New Chevrolet trucks bring you great new engine power in every model—from light-duty pickups to heavy-duty tractors. And this new power means important savings of both time and money on the job!

YOU SAVE TIME WITH GREATER SAFETY

That's because new Chevrolet trucks permit you to maintain faster schedules *without* driving at higher maximum road speeds. Thanks to greatly increased acceleration and hill-climbing ability, you can save time where it counts. Instead of trying to make up for lost time, you actually cut down the time lost at traffic lights and on steep grades.

YOU SAVE PLENTY ON OPERATING COSTS

New Chevrolet trucks bring you high-compression power that saves you money every mile. All three great

engines—the "Thriftmaster 235," the "Loadmaster 235" and the "Jobmaster 261"* deliver greater horsepower *plus* increased operating economy. In addition, the mighty "Jobmaster 261" engine reduces the need for operating in low gears on heavy-duty jobs. As a result, you shift gears less . . . save more on gas.

Now's a good time to see your Chevrolet dealer about a time-saving, money-saving truck. . . Chevrolet Division of General Motors, Detroit 2, Michigan.



**MOST TRUSTWORTHY TRUCKS
ON ANY JOB!**

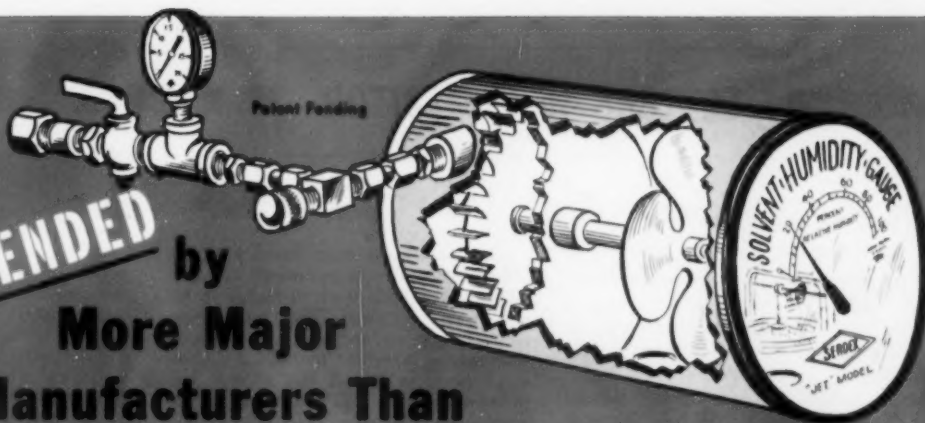
CHEVROLET ADVANCE-DESIGN TRUCK FEATURES

DUAL-SHOE PARKING BRAKE—greater holding ability on heavy-duty models. **NEW RIDE CONTROL SEAT***—eliminates back-rubbing. **NEW, LARGER UNIT-DESIGNED PICKUP AND PLATFORM STAKE BODIES**—give increased load space. **COMFORTMASTER CAB**—offers greater comfort, convenience and safety. **PANORAMIC WINDSHIELD**—for increased driver vision. **WIDE-BASE WHEELS**—for increased tire mileage. **BALL-GEAR STEERING**—easier, safer handling. **ADVANCE-DESIGN STYLING**—rugged, handsome appearance.

*Optional at extra cost. Ride Control Seat is available on all cab models, "Jobmaster 261" engine on 2-ton models, truck Hydra-Matic transmission on 1/2-, 3/4- and 1-ton models.

RECOMMENDED

by
**More Major
Soap Manufacturers Than
Any Other Gauge!**



The design of the new Serdex Jet Model gauge is based upon years of research and manufacturing experience in the field of relative humidity measurement. This specialized knowledge covers hundreds of applications in both industry and Government.

The Jet Model works on any soap and has these much wanted features:

Simplicity

EASY TO INSTALL

No wires — valves — switches.
No complicated piping.

SIMPLE TO OPERATE

Just read dial.
Operator sees immediately the exact condition in washer at any and all times.
No charts — no conversion tables.

Economy

Low initial cost.
Low installation cost.
No maintenance cost.
No damage losses.
Certainty of constant high quality output and high percentage of "pass-ups".

Efficiency

MINIMUM OPERATOR'S TIME REQUIRED

Direct reading.
No lights — bells — switches — valves.
No doubts — operator not working blindly.
No disastrous losses — due to automatic mechanical failure.

**THE "Jet"
New Model**

SERDEX

**SOLVENT
HUMIDITY GAUGE**

Price \$94.50
F.O.B. Boston, Mass.

SOLD THROUGH JOBBERS

SERDEX, INC.

91 Cambridge Street, Boston 14, Massachusetts
Capital 7-7160

SERDEX, INC.

91 Cambridge Street, Boston 14, Mass.

Please send me specifications on new jet model.

Name _____

Address _____

MANUFACTURERS OF HUMIDITY INDICATORS • RECORDERS • CONTROLLERS FOR GENERAL INDUSTRY

LETTERS to the EDITOR

What Is a Fair Price?

To the Editor:

In reference to your recent editorial, "How Much To Charge?" we have been very careful about working on a reasonable rate of prices so as to stay in business. We have been basing our cost accounting as follows:

To be on the safe side—cleaning 25 cents, pressing 25 cents, overhead 25 cents, profit 25 cents on plain garments. In other words, we have come to the conclusion that at present \$1 for cleaning and pressing plain garments, \$1.10 for pickup and delivery, is a fair price both for the operator and the consumer. We would like to know the opinions of experts on cost accounting.

Maplewood, N. J. A. M. P. CLEANERS

It seems to me that your breakdown of 25 cents each for cleaning, pressing, overhead and profit is a little arbitrary, unless you have checked your actual costs in these departments closely. If, including executive salaries, your operating costs are only 75 cents of your dollar price, yours is a truly remarkable operation. A dollar may or may not be a fair price, depending entirely on your costs.—EDRON

How To Install Incentives

To the Editor:

I just finished reading Mr. Cowie's very interesting article in the February issue entitled "Wage Incentives for the Drycleaner." This article is very thought-provoking and is on a subject in which I am deeply interested. We have a cleaning and laundry plant and the finishing departments in both parts are paid on a piecework or poundage basis. This has proved very satisfactory and we have always wanted to carry an incentive plan all the way through the plant.

So far, all the information I have been able to obtain on this subject has been in a very general form, so what I really want to know is how do you go about setting this plan up? How do you go about establishing your quotas of production, etc.? Can a person do this himself or does he have to hire one of these engineers and spend a lot of money?

WILLIAM T. STOKES III
Boston Cleaners

Burlington, North Carolina

You have expressed the feelings of many plantowners.

Most companies have found it profitable to hire an engineer trained in methods and standards work to install an incentive plan for them. This is no different from hiring an architect to design a building, a carpenter to build a house, a plumber to install the piping and plumbing system. Each of these men is a specialist in his own field.

I personally know drycleaning plants who could save from between \$2,000 to \$15,000 per year in productive labor

costs by engaging the services of a consultant for a period of four to six weeks.

As the article points out, the first step is that of establishing operations and developing efficient methods. When this is accomplished, and operators know their duties, each operation can be studied using time study or methods-time measurement. These standards are usually set in hours per piece, points, or minutes per piece. A system of points is merely an adaptation of decimal hours in order to allegedly make the system more understandable.—R.E.C.

Suggests Basic White-Shirt Formula

To the Editor:

We feel that there are both private and public questions that would be raised on the shirt formula appearing on page 54 of your December issue. We do not feel that it gives sufficient length of time in the detergent portion of the formula to obtain satisfactory soil removal over the entire shirt. The removal of soil, heavy ground-in soil, requires a combination of the optimum conditions of the best mechanical action, the best temperature, and best supplies all operating over a tangible period of time. Soil is not removed instantaneously; it is removed layer by layer or particle by particle. When you reduce the running time of the detergent portion of the formula below a reasonable time, you are asking for a residue of soil on collars and cuffs. . . .

Our other major objection is to the establishment of definite rather narrow pH limits on the formula. As far as our organization is concerned, it has been proven that pH is not necessarily a measure of detergent ability. We feel that you will also receive many objections on the values specifically named. The people who prefer higher limits will probably be even more vociferous in their remarks.

Here is a basic formula which, in many instances, can be used as shown. In any event, this formula will provide a starting point upon which to base changes. It is agreed that variations in formulas will be necessary because of the degree of soil of the average work and the standards of the customers. The final quality will be affected by the supplies used, by the operator control and attention, by the running time, by the temperature, and by the mechanical action in the wheel.

For cleaner types of work, the running times indicated and even the number of suds baths may be decreased. For heavier soil, it is suggested that additional suds baths be given and that longer running time be allowed in any given situation where other operating conditions are fixed. The water levels in the formula are indicated as low and high and would generally depend upon the recommendation of the manufacturer of the equipment.

D. E. TUTTLE
Laundry Research Department
The Procter & Gamble Company

Cincinnati, Ohio

Control Formula for White Shirts in 25-Pound Washers

No.	Operation	Time	Water Level	Temperature	Supplies
1	Suds	7 min.	Low	140°F	Properly Built Soap
2	Suds	7 min.	Low	160°F	Properly Built Synthetic
3	Suds	7 min.	Low	160°F	Properly Built Synthetic ½ pint 1% Bleach
4	Rinse	3 min.	High	160°F	—————
5	Rinse	3 min.	High	Cold	—————
6	Sour & Blue	5 min.	Low	Cold	Sour & Blue
		32 min.			



Like tying a string
around her finger...

LINCOLN GARMENT DELIVERY BAGS

Keep your name and services always in your customer's mind with Lincoln Garment Delivery Bags. They're attention-getting, colorful, striking . . . available in a wide range of individually styled selections designed to do a constant selling job for you after the cleaned garment leaves your plant. See your favorite jobber . . . or write direct for complete details.

Lincoln Bag Company, Inc.

Para-Lux Products Company

4207 WEST SCHUBERT AVENUE
CHICAGO 39, ILLINOIS

**1 pound of RSR
makes 141 gallons of
Digesting Solution at
a cost of less than
3¢ per gallon**

A black and white advertisement for RSR Rapid Spot Remover. The central image shows a dark bottle of RSR with a white label. The label features the letters 'RSR' in a large, bold, stylized font. Below this, it says 'RAPID SPOT REMOVER' in a circular emblem. At the bottom of the label, it reads 'WALLERSTEIN COMPANY, INC. 180 MADISON AVENUE, NEW YORK 16, N. Y.'. To the left of the bottle, there is a cleaning brush with a wooden handle and a head of white bristles. The background is dark and textured. Overlaid on the background is the text 'what else can you buy for less than 3 cents' in a large, bold, sans-serif font. The words 'what else' and 'can you buy' are in a lighter weight, while 'for less than 3 cents' is in a bolder weight. The text is arranged in three lines: 'what else', 'can you buy', and 'for less than 3 cents'.

No question about it...the cost of using RSR is so low as to be negligible.

But even more important than lowest cost is the superior quality and the effectiveness of RSR. It has greater strength and digesting power than any other digester on the market. No other digester can match its dependability for removing all types of albuminous spots in one quick treatment.

The most profitably-operated shops in the country, particularly if they use the strong soap solution, follow the practice of

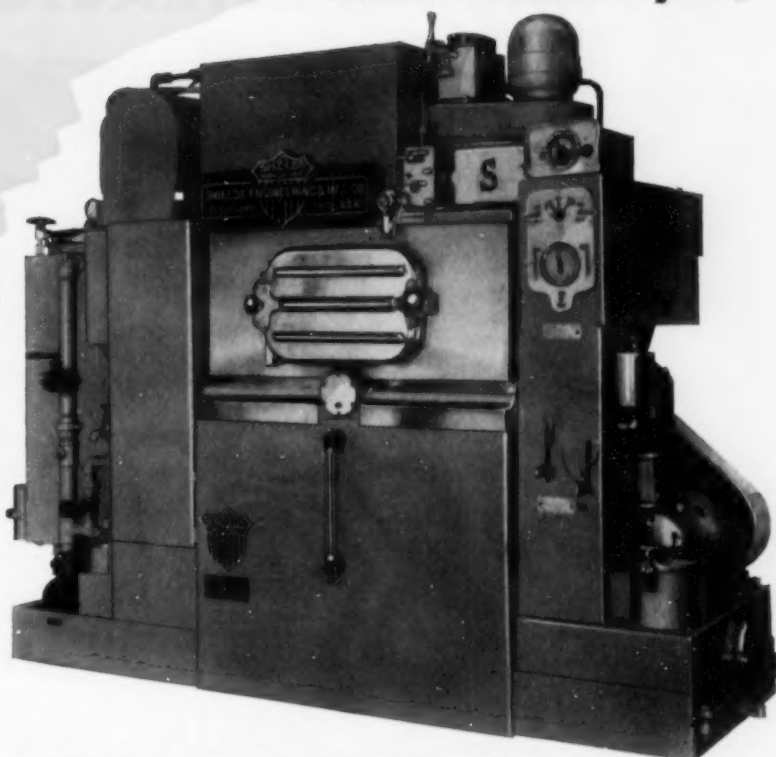
*putting all garments that are to be wet-cleaned
into an RSR Bath first*

That's the surest method for saving time, eliminating costly hand labor...and avoiding the risks of hard scrubbing!

WALLERSTEIN COMPANY, INC. • 180 MADISON AVENUE, NEW YORK 16, N. Y.

*you'll
make more
in '54*

with a **SHIELDS**
synthetic
DRY CLEANER
with recovery



Shields Dry Cleaner washes — extracts and dries in one continuous operation. Filter muck is taken out dry — also, filter screen bags can be backwashed. Occupying 22 sq. ft. of floor space the Shields Unit measures 34" wide x 88" long x 78" high—enters through a 35" door opening—is shipped completely assembled.

BACKED BY 39 YEARS OF BUILDING PRECISION MACHINERY

This compact unit, that can be operated manually or automatically, with Load Capacity of 50 dry pounds, is outstanding for economy of Space, Time and Labor. It is daily proving its Superiority in hundreds of dry cleaning plants to the complete satisfaction of owners and operators alike.

Now available with Attachments for Independent Soap Charge System and Water Repellent Treatment—requires 6 to 8 minutes operating time. Solution is used over and over again giving further economy in operating unit.

COMPARE AND YOU'LL BUY A SHIELDS—THAT'S WHAT MANY LEADING DRY CLEANERS ARE DOING. NO INCREASE IN PRICE.



Shields

ESTABLISHED 1915

**ENGINEERING AND
MANUFACTURING CO.**

273 EAST 156th ST. • CLEVELAND 10, OHIO

PLAN AHEAD

with the

GROSS-EX

WASHER-EXTRACTOR



**THE ONLY COMPLETELY
MODERN WASHER-EXTRACTOR
DESIGNED TO MEET TOMORROW'S DEMANDS TODAY!**

- ★ Less garment handling
- ★ More efficient utilization of space
- ★ Constant, high quality cleaning
- ★ Lower production costs
- ★ Balanced workflow
- ★ Complete adaptability to new cleaning methods

The GROSS-EX is available in manual, automatic 1-bath and automatic 2-bath models in 70 lb., 100 lb., 200 lb., and 300 lb. capacities.

Write or wire for Bulletin.



GROSS MACHINERY CO., INC.

Originators and Manufacturers of the World's Finest Dry Cleaning Equipment
183 HALBERT ST. Founded 1923 BUFFALO 14, N. Y.



Fewer wet cleanings—less spotting with no greying or dulling of colors



whether you use
***ALROLENE®**
in the charge
or batch system

Try this quick soil removal and whiteness retention test!

SOILED RAYON

Place in jar with Alrolene and
shake vigorously.

UNSOILED COTTON

SOILED RAYON

Place in jar with ordinary detergent
and shake vigorously.

UNSOILED COTTON

Proper soil removal

No Redeposition

Poor soil removal

Soil Redeposition

* Alrolene 65 for synthetic systems
Alrolene 70 for petroleum systems

ALROLENE, the unique detergent, introduces the proper amount of detergent and moisture into your washer whether used as batch or charge soap. That is why Alrolene can reduce wet cleaning and spotting with no loss of whiteness or brightness . . . without causing filter or still problems . . . without discoloring your solvent.

Save time and money by trying this simple test. All you need are two soiled rayon swatches, two unsoiled white cotton swatches and two jars with covers. Place solvent (4 to 8 ounces) in both jars. Add a few drops of Alrolene to one and twice as much of your ordinary charge or batch detergent to the other. (You can use more Alrolene if you like, but the results will be the same as with only a few drops.)

Place a soiled swatch and an unsoiled swatch in each jar and shake vigorously for a few minutes. Examine the swatches and you will see that in the jar with ordinary deter-

gent the soiled swatch is still very dirty and the small amount of soil removed was picked up by the cotton swatch. In the Alrolene jar, the dirt is properly removed from the soiled swatch and the large amount of removed soil is held off the white swatch by the amazing suspending powers of Alrolene. The white cotton remains white.

Soiled swatches will be sent to you with your initial order. Why not run these in your washer and in a jar! You'll be more than pleased with the results and amazed at the performance of Alrolene.

ALROSE CHEMICAL COMPANY
BOX 1294, PROVIDENCE 1, RHODE ISLAND

ALROSE CHEMICAL COMPANY
Box 1294, Providence 1, R. I.

Please send me further information on

Alrolene in the ☐ Batch System I use ☐ synthetic solvent
☐ Charge System ☐ petroleum solvent

☐ Please ship me 5 gallons of Alrolene with 4 sets of FREE soiled test swatches and directions for their use.

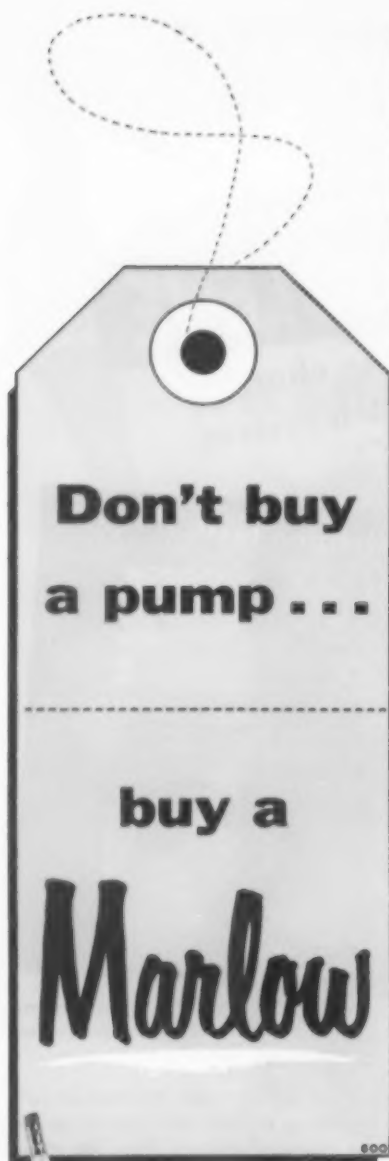
NAME _____

FIRM _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

SIGNS of the TIMES



Write

FOR BULLETIN
DC-53



MARLOW PUMPS • RIDGEWOOD, NEW JERSEY

Public Service by Drycleaners: The Intermediate Girl Scouts of Georgetown, Ill., collected wire hangers from January 24 to 30 and sold them to C. C. Mitchell of Fashion Cleaners. Proceeds were turned over to the March of Dimes Fund.

Elizabethtown (Ky.) Laundry & Dry Cleaning Co. has announced that all proceeds from tie cleaning during February would be donated to the March of Dimes. Burrow Kendall's Model Cleaners, Clarksville, Ark., is also donating tie-cleaning receipts to that campaign.

Henry M. Tamburo, Auburn, N. Y., drycleaner, has been elected chairman of the Cayuga County Board of Supervisors. Mr. Tamburo is a member of Neighborhood Cleaners Associations.

Al Kunkel, operator of an Aurora, Colo., drycleaning establishment, was recently presented a distinguished service award by Aurora's Junior Chamber of Commerce for his civic work during 1953.

##

Swiss Cleansing Wins "Joshua": The Match Industry Information Bureau has awarded a bronze "Joshua" plaque to Swiss Cleansing Company, Providence, R. I., for the most distinguished use of match-book advertising in the drycleaning and laundry industry in 1953. In 1952 Swiss Cleansing Company won a merit certificate.

The judges voted award certificates to Becker Launderers-Cleaners, Lexington, Ky.; Wykagel Valet, New Rochelle, N. Y.; Bobb's Cleaners, Toledo, Ohio, and Sunshine Laundry & Cleaners, Rocky Mount, N. C. A panel of leaders in the advertising field served as judges for the contest.

##

Licensing Bylaw Sought: Members of the Dry Cleaners Institute (Ontario), Canada, have proposed legislation to regulate the industry. Jack Goldberg, manager of Spotless Cleaners, Trenton, reported that a bylaw requiring licensing of all drycleaning establishments will be introduced in Toronto. It is then hoped that the Department of Municipal Affairs will adopt it on a province-wide basis.

Under the bylaw, each firm will have to prove financial responsibility before licensing for the protection of prospective customers. It will also

require that the firm name used represent local industry and not an agency. If the legislation were passed it would mean, according to Mr. Goldberg, that agents would have to use the names of the firms they represent as well as their own names.

Although in 1934 the province of Ontario passed a law to make licensing of drycleaners possible in individual municipalities, the town of Trenton has never done so. The Institute felt that the proposed bill would make conditions in the industry uniform. The bill is also considered by the Institute to be another forward step in bringing the drycleaning industry to the point where its importance is recognized.

##

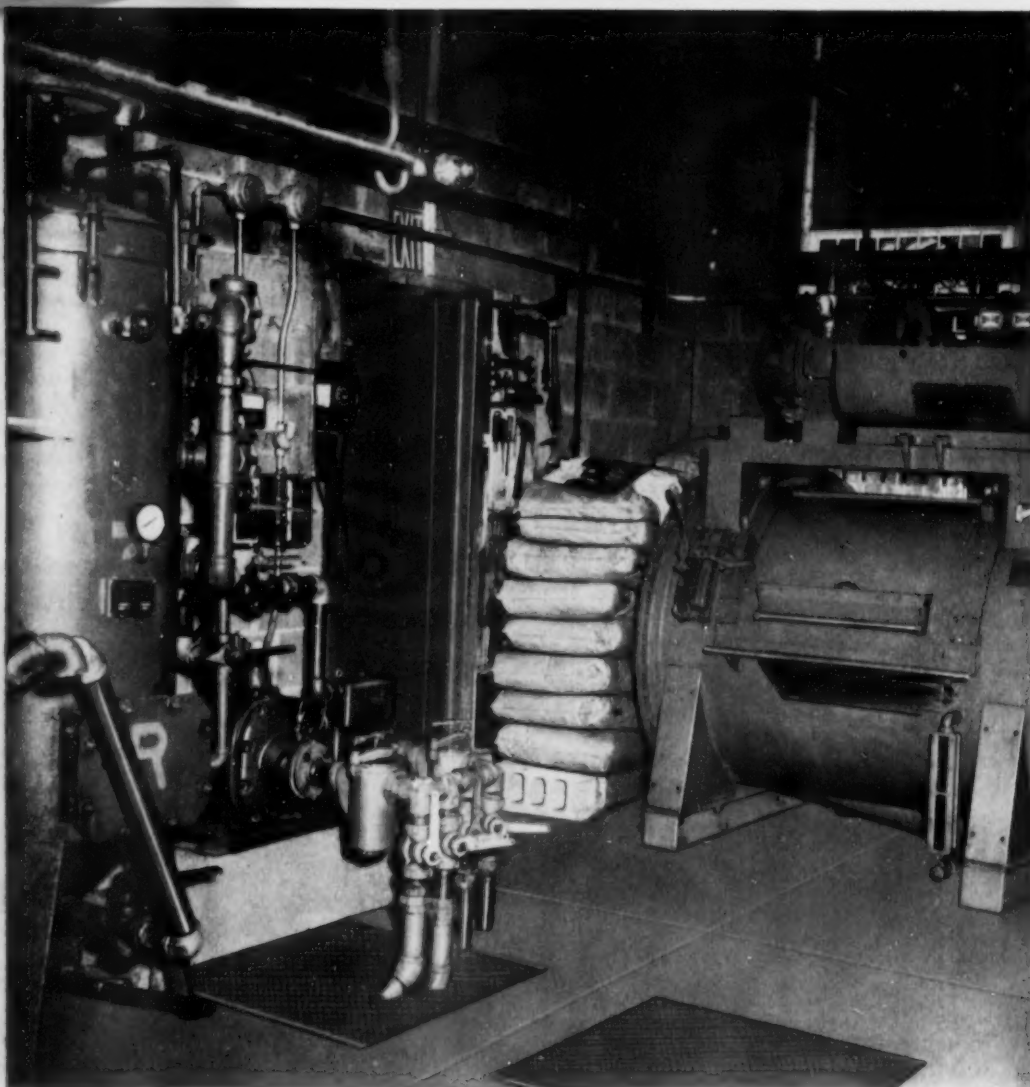
Students and Parents Tour Plants: Members of the Stevens (Pennsylvania) Parent-Teacher Association devoted a recent monthly meeting to a tour of the M. & L. Cleaning plant, newly erected by Morris Lashay. The owner explained operation of the cleaning equipment as he conducted the group through the plant.

Students in a Lumberton, North Carolina, chemistry class were reported keenly interested in their tour of Byrd's Dry Cleaners, which featured spotting and shirt-finishing demonstrations by the owner, Tommy Byrd.

##

Britishers Salute Us: After a recent visit to drycleaning establishments in half a dozen American cities, two Englishmen said that Americans are more "clean clothes conscious" than Britishers are. Eliot C. S. Howard, president of Quality Cleaners, Ltd., Worcester, England, and Maurice Jewell, general manager of the concern, attributed this to an American passion for good grooming, our higher standard of living and our scientific approach to the cleaning business.

According to Mr. Howard, even though the drycleaning industry had its origin in Europe, it is considered a new industry there. "In England," he reported, "the yearly per capita cleaning bill is about \$1.75, compared to about \$10 in the United States. The average Englishman sends garments to be cleaned about once in six months."



IT'S QUIET AND CLEAN IN THE WASHROOM of Park Cleaners of Lynbrook, L. I., with Marlow Self-Priming Pumps on the job. Two quiet, dependable Marlows, one handling strong soap solution, the other rinse solution, pump from underground tanks through filters to a washer-extractor, giving low-cost, efficient service. The pumps at Park, like all Marlows, have mechanical shaft seals that keep solvents off the floor . . . reducing fire hazard and fumes.

marlows are economical!

Performance proves Marlow Self-Priming Centrifugal Pumps are best for handling all types of dry cleaning solvents. Flow interruptions caused by loss of prime are *corrected automatically* by the pumps . . . even when located above the solvent level. Simplicity of construction make Marlows *economical to operate and maintain*. On new machines, or replacement, make it a Marlow. See your Marlow dealer or write for Bulletin DC-53.

MARLOW PUMPS • RIDGEWOOD, NEW JERSEY

Multi-stop leader delivers at **LOWEST COST**



Model RM-120 with standard style 9½-foot METRO body, used widely by laundries and dry cleaners. **INTERNATIONALS** with METRO bodies are the leader because they lower delivery costs. Short overall length saves garage and dock space.



Maximum maneuverability from short wheelbase chassis. Forward position of driver commands view at traffic. Driver stacks first deliveries on fully-insulated, roomy engine cover.



Low Stepwells. Driver time and energy are saved by low stepwells and many other exclusive features. Inside step is only 8 inches high, average for household stairs.



6-foot headroom. Full 6-foot inside height permits carrying long dresses on rods. This new feature makes loads easier to work and reduces driver fatigue. Sliding front doors are standard, folding doors optional.



New driver comfort. Exclusive bucket-type seat, specially designed to make driver's work easier, cushions the driver in foam rubber comfort. Folding steel back. Adjustable seat folds and swings forward.

INTERNATIONAL Trucks with METRO® bodies have been the leader in the multi-stop field for 15 straight years. They give lowest-cost performance because the rugged **INTERNATIONAL** chassis and the all-steel **METRO** body are specialized for delivery service.



More Payload Space. Every METRO body has greater payload space, ranging from 243 cu. ft. for standard back 7½-ft. body to 392 ft. for flatback 12-ft. body. New low floor speeds loading and unloading, front or rear. Dry-cleaning racks available for every METRO body.

Get the long life and low operating cost of the INTERNATIONAL chassis, the unusually low maintenance cost of the METRO body. Compare INTERNATIONAL with any multi-stop truck.

More payload space. Eight body sizes, two body styles—standard or flatback. Four body lengths—7½, 9½, 10½, and 12-ft.; each has increased capacity. New capacities range from 243 to 392 cu. ft.

New driver convenience. New full 6-foot headroom. Low stepwells. Sliding front doors standard, folding doors optional. Six rear door options.

New driver comfort. New broadleaf springs. New shock absorbers. Lower center of gravity. New toe-board angle.

New savings. New downdraft carburetion for greater fuel economy. New cushioned disc clutch for longer life, smoother operation.

Six chassis models, 102, 115, 122, and 134-inch wheelbases. GVW ratings, 5,400 to 11,000 lbs.

Ask your **INTERNATIONAL Dealer or Branch** for a demonstration. Time payments arranged.

INTERNATIONAL HARVESTER COMPANY • CHICAGO



International Harvester Builds **MCCORMICK®** Farm Equipment and **FARMALL®** Tractors... Motor Trucks... Industrial Power... Refrigerators and Freezers

Better roads mean a better America

INTERNATIONAL® TRUCKS

"Standard of the Highway"

Cut spotting time in half with these "proved-in-performance" Wilson Spotters



TarGo

... the penetrating, action-loaded wet or dry spotter that works faster and gets out more stains than any other spotter you can buy. Removes "hard-set" stains like OXIDIZED OIL and GREASE, AIR-PLANE DOPE, SHOE POLISH, MARKING and BALL PEN INKS, LIPSTICK, NAIL POLISH, PAINT, TAR, PITCH, LACQUER, TANNIN, etc. ... even the tough stains that don't come out in charged-system cleaning. A "must" on fragile fabrics because it works with a minimum of rubbing or mechanical action. *Great* for lipstick and ball pen ink loads.



YellowGo

★ Mix TarGo with solvent in a "TarGo-Mix" Spotting Bottle ... get a superior spotter that assures quicker, easier removal of "run-of-mill" stains. Try it.

... the safe, controllable liquid stripper for removing fugitive dye stains, button rings, black buckram, red clay, metal, match and writing ink stains. Use it on the board or in a bath. *YellowGo* is not a bleach — will not whiten off-whites nor mat wool ... may be safely used on colored garments. Highly concentrated for economy — mixed with water, *YellowGo* costs less than 5¢ a gallon of spotting or stripping solution.



QwikGo

... the lightning-fast protein digester for removing small albuminous stains right on the board. Used with water and steam gun on MUSTARD, BLOOD, GRAVY, DISCHARGE, MILK, ICE CREAM, VOMIT, EGG, GLUE, COFFEE, TEA, CHOCOLATE, SALAD DRESSING, SOFT DRINK, YELLOW (tannin-type) and similar stains. Packaged in convenient 8-oz. dispenser bottles.

Manufactured by
A. L. WILSON CHEMICAL COMPANY
Kearny, N. J.

Sold by
LEADING JOBBERS EVERYWHERE

BUSINESS BUILDERS

Fabric Counter Cards



The counter card pictured above is one of a set of six recently put out by the National Institute of Drycleaning, designed to educate both customers and counter girls. According to Dr. Dorothy Lyle, director of consumer relations, they were planned to meet a need for a positive instead of the usual negative approach.

The six fabrics chosen were those which present the major fabric problems in the industry today, on the basis of complaints received by the NID's analysis department. They are taffetas, velvet, pigment prints, embossed designs, flock prints and bengaline.

Actual fabric swatches are shown; the cards are cut out in such a way that the swatch fits between the front and the back, thus preventing fraying of the fabric edges. The copy on the front, which the customer sees, is kept short and simple, and is designed to make her realize that she could learn more about fabrics. Hence the copy is keyed to consumer leaflets on the same subject, which are on display on the counter and which she can take home for further study.

The copy is also planned to build consumer confidence, and so incorporates the phrase, "Ask us for information regarding the cleaning, spotting and finishing of the particular fabric under discussion." It also includes the

industry's slogan, "Your Cleaner Is Your Clothes' Best Friend."

The back of the card is designed for the counter girl, and contains fabric facts along three lines: (1) general information on the specific fabric; (2) facts she can tell her customer about the fabric; (3) reference sources for further study. The counter girl is referred to the NID technical bulletin and Fabric Facts bulletin relating to that fabric.

Each card measures 18 by 22 inches, and is displayed in a holder of wrought iron and translucent white plastic. The leaflets are shown in a plastic holder.

Good Odds at Moore's

Many establishments use calendars as advertising aids, but Moore's Cleaners, Danvers, Massachusetts, has a variation on this giveaway. The first 500 people who requested them this year received numbered desk calendars. Each week during the coming year, Moore's will post one of the numbers in its plant store and the holder of the designated calendar is entitled to free cleaning service.

With 52 chances out of 500, holders of the calendars get better than 10 percent odds for a free cleaning job.

Welcome to Salesmen Wins Goodwill



The framed sign which Clyde J. Jones is showing in the photograph above hangs behind the counter in the attractive store of his Jones Cleaning Service plant at Vicksburg, Mississippi. Headed "Welcome Traveling Salesman," it asks those visitors to

Putting It Nicely

Dear Mrs. _____

The greater part of the cost of dry cleaning is paid out every week in the form of wages.

It is therefore impossible to grant 60 day or 90 day credit to our customers.

May we have your check in the amount of \$ _____?

Your cooperation is much appreciated.

A self-addressed return envelope is enclosed for your convenience.

Sincerely



DELINQUENT CHARGE customers of A. Talone, Ardmore, Pennsylvania, receive this little slip with bills. Notice provides firm reminder but doesn't get nasty about it.

make suggestions and give criticisms which will improve the work.

This sign has been a winner for the firm in two ways, Mr. Jones said. First, it has made traveling salesmen feel that they are wanted at the plant, and that their suggestions are appreciated. The firm has gained a



Barcol®

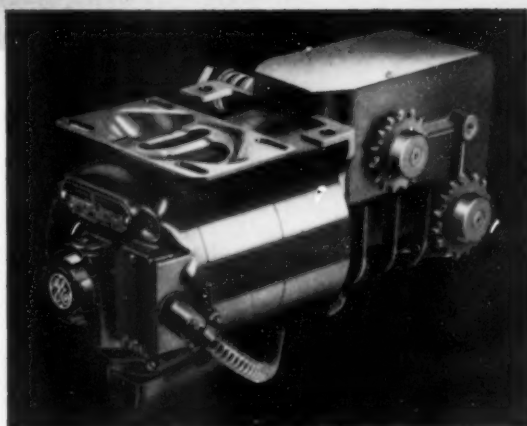
Door Operators

extra help for rush hours!

... costs only \$230; can be operated

from truck cab with radio control!

Timesaver, laborsaver and cost-cutter—that's how users classify their Barcol electric door operators. Several models will easily operate very large, medium-size, or small commercial doors—whether swinging, sliding or OVERhead type. The many convenient switch arrangements include radio control installed on vehicles and actuated by the driver. You pay for this dependable electric helper only once, and it works for you reliably for years and years. Qualifies under FHA for small monthly payments. Ask your Barcol distributor—he sells, installs, guarantees, and services both Barcol OVERdoors and Operators. Speed your work, speed your service—call him today.



*Model L \$230 F. O. B. Rockford, Ill., Radio Control extra



CALL YOUR BARCOL DISTRIBUTOR

Look under "Doors" in phone book or write for complete information.

Name _____

Address _____

City & State _____

BARBER-COLMAN COMPANY, DEPT. NN44, ROCKFORD, ILL.

OVERdoors and Operators • WARDROBEdoors • Air Distribution Products
Small Motors • Automatic Controls • Metal Cutting Tools • Molded Products
Textile Machinery • Industrial Instruments • Aircraft Controls • Machine Tools

great deal through helpful suggestions made by salesmen.

Secondly, Mr. Jones was surprised to learn that there was one or more salesmen in the families of over half of his customers; that half of the customers either were salesmen or had close family ties with some one who was a salesman. Hundreds of these people commented about the sign and expressed their appreciation.

Open-House Season

Every year from January 2 to March 1, Modern Cleaners of Auburn, Washington, holds open house; schools and

club groups are invited to tour the plant. Initiated at the request of the home economics department of the local high school, the yearly trip has become an integral part of the school curriculum.

The tour starts where the garment is marked in. Then the visitors go to the prespotting department, where the spotter demonstrates his art. The cleaning procedure is next explained and the group is shown how garments are rainproofed and treated with moth repellent. The tour is completed in the finishing, repair and assembly departments.

After the tour, each group is served a light lunch, and a question-

and-answer discussion is conducted.

Manager W. J. Thorp, who conducts the visits, reports, "We have derived a great deal of benefit from these plant visits. In fact, they are about our only advertising. And we can see, after each two months' open house, that we have gained a substantial number of new names on our customer list."

Incidentally, Modern schedules open house for January and February because those are its two bad-weather months, with lower volume.

Customer-Control Novelties

Doubled volume in about two years was achieved at Bobb's Cleaners in Toledo, Ohio, by a varied promotion and customer control program featuring extensive and ingenious use of direct mail.

One of the most unusual customer-control mailing pieces used by proprietor R. Pacholski was a blotter postcard. The front of the postcard, carrying the address, read, "I'll tell you a secret if you dip me in water." The reverse side was blank until dipped in water, when the lettering appeared. The message for new customers, for example, read:

WE LIKE YOU VERY MUCH
FOR YOUR RECENT ORDER OF DRY-
CLEANING. WE SINCERELY HOPE YOU
WILL BE AROUND FOR A LONG TIME.
IF YOU HAVE A "BEEF"—FEEL FREE TO
CALL ME.
YOU ARE A VALUABLE ASSET OF OURS—
A CUSTOMER—AND REMEMBER:
WE THANK YOU VERY MUCH
BOBB'S CLEANERS, INC.

Underneath were the addresses and telephone numbers of the firm's three outlets.

When Mr. Pacholski reported on the results of this mailing, he did not have complete figures, but stated that after only 12 days he had a return of 43 customers from 286 cards, who had brought in \$169.45 in cleaning orders. A 15 percent return is extremely high on direct-mail promotion.

Another promotion which Mr. Pacholski reports brought in new customers and regained "quits" was a special Christmas offer. During the 1952 Christmas season Bobb's mailed out 7,200 money-holder cards to every home in its trading district. They were regular Christmas cards, containing no advertising, but in place of money inside there was a coupon good for \$1 on any drycleaning order. In the 1952 holiday season, Bobb's

(Continued on page 41)

New York's Kent Cleaners cut shirt-wrapping costs in half!

Kent, world's largest laundry and cleaners, found bagging and tagging shirts with a Bostitch stapling plier 4 times faster than wrapping with paper-and-tape. Neater, more secure, cuts time-and-material costs in half. A time-saver, too, attaching dry-cleaning garment tags. Look up "Bostitch" in your phone book or mail coupon.



Fasten it better and faster with

BOSTITCH
STAPLERS AND STAPLES

BOSTITCH, 584 Mechanic St., Westerly, R. I.

☐ Illustrated bulletin, telling how stapling can fit my business.
Free demonstration by a Bostitch Economy Man.

Name _____

Address _____

City _____

Zone _____

State _____

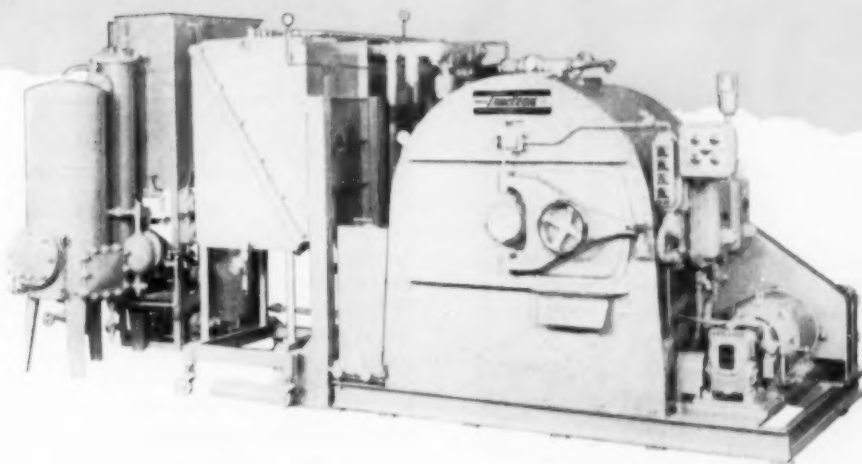
Complete Line **Aceco**

**ACECO
DRY CLEANING EQUIPMENT**

One Source for Everything
You Need to Boost Production,
Lower Costs, Control Quality

TRUCLEEN

The Original 2-Bath Petroleum Solvent Cleaning Unit
World Standard For Quality!



Slashes Labor Costs . . .

**Provides More Output—Practically
Eliminates Prespotting and Wet Cleaning.**

The American Trucleen Unit cleans and extracts, then rinses and extracts in one straight-through, *completely automatic* cycle. It is your answer to highest quality cleaning with Strong Soap Solution. Trucleen's three-compartment, open-end cylinder lets you clean 150 lbs. per hour and run different classifications of work at the same time. It eliminates idle time waiting for large loads of one classification of work.

Wash and rinse baths are continuously filtered, the rinse bath continuously distilled. Re-use of wash solvent saves soap. Trucleen's exceptionally high quality cleaning reduces spotting and wet cleaning. *Compare*—and you'll want the best that delivers *more*—the famous Trucleen Unit!

Conversion Unit

Looking toward the future—you can start with just the 105-lb. capacity Extracting Washer. As business increases, you can convert to either a complete Single-Bath Unit or a 2-Bath TRUCLEEN Unit.

Look To Aceco For Leadership in Dry Cleaning Equipment

Complete Line



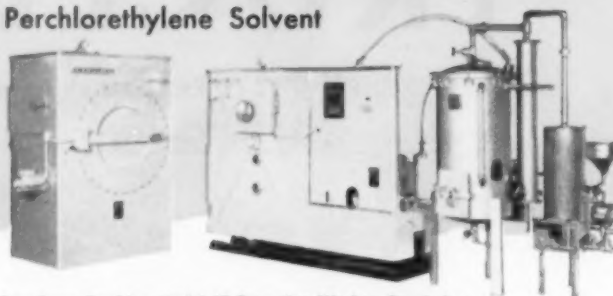
ACECO DRY CLEANING EQUIPMENT

Compare! Here's Equipment
That Pays Dividends in Superior
Performance, Longer Life

AMERICAN-MARTIN MODEL 60 DELUXE TRANSFER UNIT

for use with Perchloroethylene Solvent

Protect your
Growing business—
Increase your capacity



Perc-Saver Tumbler, Model 60 Extracting Washer, Powderless Filter-Still with Automatic Strip-Still Tank.

Cleans - Extracts - Dries

Deodorizes 200 lbs. per hour!

Model 60 will boost your plant's capacity for business and profit. Designed for efficient, large-volume cleaning, it is *completely automatic* through the Break, Soap, Rinse, Drain and Extract phases of the cleaning cycle. Two-pocket, open-end, cylinder with dry weight capacity of 25 lbs. per pocket, provides total load capacity of 50 lbs. You can produce over 200 lbs. of consistently top quality cleaning per hour with minimum operator attention.

Compare! Feature for Feature

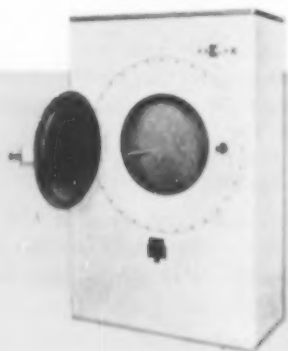
Model 60 Gives You More!

Automatic! Cleans, rinses, drains, extracts—then signals operator that load is ready to be dried—all *automatically*. Saves labor, assures uniform quality work.

Self-Cleaning, Powderless Filtration! Eliminates costly filter aids. No powders to absorb solvent. No filter sludge to clean out. Saves solvent, eliminates backwashing, scraping of plates, other time-consuming tasks.

Strip Distillation! Exclusive steam stripping reclaims solvent from Filter-Still residue—actually recovers approximately 50% of solvent usually discarded with filter sludge.

Patented Vibration Control! Model 60 does not require special bolting, floor or foundation.



Model 50-PT Perc-Saver

Doubles Capacity of Any "Hot" Perchlor Unit

A combination drying tumbler and solvent recovery unit for perchlorethylene. Use with any perchlorethylene dry cleaning unit. Dries and deodorizes 50 lb. load in approximately 12 minutes, depending on type of work. Reclaims approximately 90% of solvent remaining in garments after extraction. Reclaimed solvent is returned by gravity to storage tank of cleaning unit.



● TUMBLE UNIT



● AMERICAN-MARTIN UNIT



● DUCTILE WASHER



● D.T. EXTRACTOR



● SOLID CUP EXTRACTOR



● DIME AIR TUMBLER

Complete Line

AceCo.

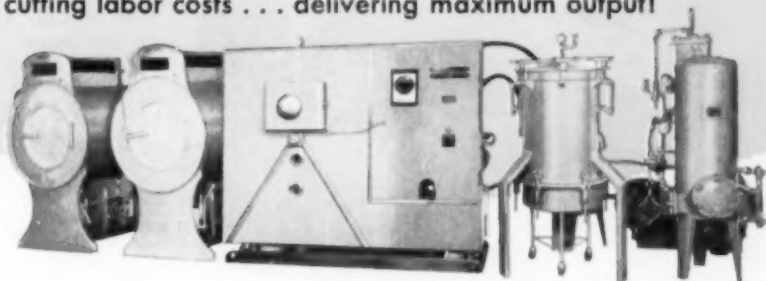
ACECO

DRY CLEANING EQUIPMENT

One Source for Everything
You Need to Boost Production,
Lower Costs, Control Quality

AMERICAN-MARTIN Model 66 Safety Solvent Dry Cleaning Unit

The Complete PROFIT-MAKING PACKAGE for
cutting labor costs . . . delivering maximum output!



American Safety Tumblers, Model 66 Extracting Washer, Clari-Filter, Vacuum Still. Underwriter Approved for use with Class III Petroleum Solvent.

Here, in one profit-making package, is an American-engineered unit that really cuts labor costs. Model 66's cleaning-extracting cycle is *completely automatic*—even to injection of soap. Operation is so simple that one operator cleans up to 150 lbs. per hour, and has time for other work. You get highest quality cleaning because Model 66's big cylinder gives deep-drop action that opens up garments, washes them clean—faster!

- Automatic Extracting Washer with Adjustable Timing Control & Automatic Supply Injection.
- Easy Classification of Garments in Large 40" x 24" Stainless Steel, 2-Pocket Cylinder.
- Exclusive Iso-Vibe Shock Mounts Absorb Vibration . . . No Special Floor or Foundation Needed.
- Attractive, Display-Worthy Enamel Finish . . . Rust Protected Inside.



ZONE-AIR TUMBLER

Dries & Deodorizes Faster, Safer, with Minimum Heat

Exclusive "Zone-Air" Drying Action concentrates greatest volume of heated air in "zone" where garments are most fully opened up as they fall from cylinder ribs. Direct-driven, non-sparking fan. Continuous tube heater and swing-type dampers on 36" machines. Header-type heater and

lever-operated louvres on 44" machine.

Three sizes: 36" x 18", 24", 30" and 44" x 42" (25 to 120 lbs. dry weight capacity); explosion-proof single motor drive, non-reversing; or double motor drive, reversing.



● PERC SAVER TUMBLER



● HEATED PRESS



● TRUFORM FOLDING



● JAWBOK CASCADING WASHING



● MOTOR EXTRACTOR



● 7-OPERATOR SHIRT UNIT

Complete Line

Aceco

ACECO DRY CLEANING EQUIPMENT

Compare! Here's Equipment
That Pays Dividends in Superior
Performance, Longer Life

ACECO FINISHING EQUIPMENT

Simple, Easy Operation for Higher Production, Finer Quality



ACECO Air Driven Press with Natural-Motion, Bar-Handle Control

Bar Handle Control on head in natural position for quick, easy reach without fumbling beneath garments. Easy-action Treadle Control applies extra heavy pressure after head is sealed. Bar Handle and Pressure Treadle Controls interlocked to prevent lowering head accidentally or leaving press with head sealed. Easy, safe and fast for even inexperienced girls to operate.

Double-Handle Steaming Control on head permits steaming from head while head is being lowered—saves motions and time steaming. Hamilton Spring Padding allows faster distribution of steam, improves pressing quality. Adjustable air pressure regulator assures constant operating speed, and correct finishing pressure for all types of fabrics.

Furnished with either steam or air vacuum; automatic air vacuum control optional. Three models: Utility, Mushroom or Pants Leg. Also available in Foot-Operated type.

Write or wire for more information on machines shown, and other quality-built dry cleaning equipment in AMERICAN CLEANERS EQUIPMENT COMPANY'S complete, dependable line.



AMERICAN
CLEANERS EQUIPMENT CO.

Cincinnati 12, Ohio Division of the American
Laundry Machinery Co.



SHORT
COAT
FORM



LONG
COAT
FORM



DRESS
FORM

TRUFORM Steam & Air Finisher . . . Speeds Up Operation, Cuts Finishing Costs

Finishes all types of garments in just four fast operations. Dress the form—steam—inflate form—remove. No adjustments necessary to finish different size garments. Forms can be rotated for dressing backs of garments without operator moving from in front of Finisher.

Three different quickly interchangeable Forms available (illustrated). Forms inflate to adjust themselves for different size and style garments. Ladies' Garment Form completely finishes most dresses, also skirts and dressing gowns, only fancier dresses require touch-up. Long Coat Form finishes ladies' long coats and men's top coats and overcoats. Short Coat Form finishes both men's and women's suit coats and jackets.



Complete Survey and Planning Service

America's complete advisory and technical service is at your disposal without cost or obligation. It includes competent dry cleaning consultant service, a thorough survey of your needs, expert planning and recommendations for equipment most practical for your particular operation.

Look To Aceco For Leadership in Dry Cleaning Equipment

(Continued from page 36)

got back 1,852 coupons for the six-week period of the offer.

Results? In 1951 volume for the same six-week period was \$7,501. In 1952, with the coupons, it jumped to \$9,970, an increase of \$2,469. Labor cost for the same period was \$3,523 in 1951 and \$3,786 in 1952, an increase of only \$363. According to Mr. Pacholski the goodwill created was "terrific"—there was a lot of favorable customer comment.

Mr. Pacholski also sends out greetings for birthdays and anniversaries of customers. Greeting cards, also noncommercial, enclose a similar coupon. Through forms for filling out dates distributed as bundle inserts, the firm has built up a file to which it now mails about 50 birthday cards and 30 anniversary cards a week.

The 1952 Christmas card campaign was followed up with an offer of a set of sherbet glasses with every \$3 drycleaning offer. The offer was printed on the back of a flyer promoting "6 times cleaner drycleaning."

The coupon offer ended January 15 and the premium offer started January 16. For the comparable six weeks of 1952, volume was \$8,629; for the six weeks of the sherbet campaign in 1953, it was \$14,391, a gain of \$5,762. Bobb's gave away about 2,700 sets of sherbets at a cost of 24 cents a set.

Bobb's is now sending out another customer-control "teaser" in a very small envelope printed on the outside, "A Vitamin Pill for You." It contains a transparent capsule in which is a rolled-up narrow strip of paper. Opened up, this also turns out to be a coupon addressed to lost customers. It reads:

"May this act as a vitamin pill to reactivate a dormant customer of ours. We miss you very much here at Bobb's Cleaners and hope to see you back very soon. We'll try to do our best to satisfy. The vitamin in this pill is worth \$1.00 on any order of drycleaning. Hope to see you soon."

Shirt-Board Sweepstakes

Here's an idea that went over big at Bishop Laundry down in Dothan, Alabama.

The management had all the letters of the word "Bishop" printed on 52,000 shirt boards. There were 10,000 with each letter except for the letter "I" which was limited to 2,000. Newspaper ads announced that the boards would be used on dress shirts during a two-month period and that every time a customer spelled out "Bishop,"

he could turn in the boards and receive in return a card good for \$1.80 in free drycleaning.

The ad also pointed up the idea of playing for fun, trying to get the boards to match up, and the profit idea of being a winner of part of the \$3,600 to be given in free cleaning.

The customer who had lots of shirts obviously won several times. But that was only fair since it was management's wish to reward its biggest customers. In the closing period of the contest, one customer actually ran an ad in the paper offering to swap the letters "H, O, P" for three

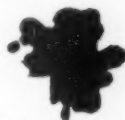
"I's" in the Bishop Contest. All the winnings were charged off to advertising, of course.

The Bishop plant also held a "Tie Exhibit" in which cash prizes amounting to \$100 were offered customers for the loudest, the most sentimental, the most romantic, the oldest and the most artistic tie entered in the exhibit.

Each entry was to be accompanied by a 25-word description and this apparently frightened away many customers. Nevertheless, the plant saw more ties than it ever dreamed of. Not a few people learned for the first time that a tie could be cleaned.



Lady Macbeth Cried



"Out d—d spot"
the Lady cried,
It wouldn't clear,
although she tried.
She would have had
an easy time
If she had only
used EXZYME.



TRY IT — TODAY!
SAVE TIME, SAVE MONEY!

Sold by most
good jobbers everywhere.
Write for free sample
and information.

Copyright 1954

PABST BREWING COMPANY

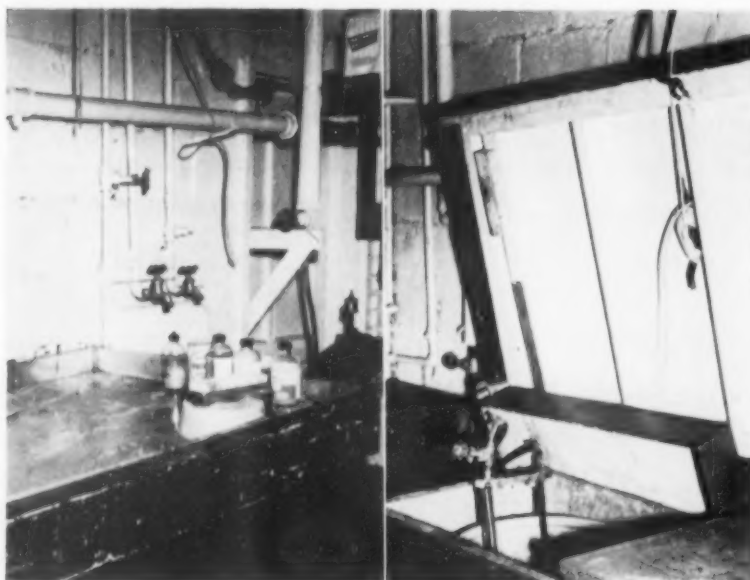
Industrial Products Division
221 N. La Salle St., Chicago, Ill.

the world's finest spot remover



GADGETS and GIMMICKS

Dual-Purpose Wetcleaning Table



With the top down, this arrangement at A. Talone, Ardmore, Pennsylvania, is an ordinary wetcleaning table. When it is raised, however, a neat showerproofing setup is seen.

Beneath the table top are two compartments, each containing a large galvanized-iron can. The cans contain showerproofing solutions of two differ-

ent concentrations. A homemade portable steam coil which may be lifted out and moved around as desired heats the solution to the proper temperature.

The holder which supports the steam coil also supports a compressed-air line. The air is used to agitate the solution.

Signal Speeds Drive-In Service



A service-station signal cord is worth hundreds of dollars to his business, according to Roy Cornelison,

owner of Cornelison Cleaners, Big Spring, Texas.

The signal system consists of a 30-

foot electric rubberized hose stretched out directly in front of the plant. The second a car runs over it, a signal bell rings inside the store.

"Before the signal was installed," said Mr. Cornelison, "we either had to watch the street all the time or listen for automobile horns. Sometimes a honk meant a customer, but quite often it was some impatient motorist at the nearby traffic light."

"Then, too, we had customers who would stop in the driveway but hesitate to blow the horn. Occasionally, alas, the front windows steam over and we can't see through them well."

With the signal system, the Cornelisons pride themselves on seeing how fast they can wait on a customer. Now a customer never has to wait over 10 seconds before an employee dashes out to serve her.

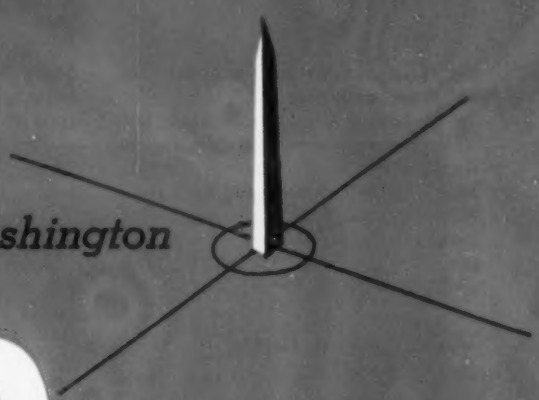
"The whole thing cost me only \$12," said Mr. Cornelison, "but I wouldn't take a thousand for it if I couldn't buy another one."

Cornelison Cleaners has enjoyed a steady growth the past two years. The owner believes that giving high quality work and superfast service make a combination that gets the most credit.

Ramp for Rack Space



A carpeted ramp in the alleyway between ready-garment storage rails at Town & Country Cleaners, Hous-



From Cleveland...to Washington

2500

**conductivity
installations**

and an overwhelming vote of confidence!

STREET's first introduced CONDUCTIVITY CONTROL to N.I.D. delegates at the Cleveland convention held in February of 1953.

Between Cleveland and the Washington, D. C. convention of February 1954 leading plantowners gave STREET's one of the most overwhelming votes of confidence ever witnessed in American industry.

Expressing complete confidence in the integrity of STREET's research staff, and the responsibility of STREET's management, 2500 cleaners purchased a revolutionary apparatus sight unseen, with only the reputation of the manufacturer to guide them.

Between Cleveland '53 and Washington '54 an industrial revolution took place from which an entire industry is destined to profit.

The drycleaning industry is indebted to those first 2500 plantowners who, in the twelve months between Cleveland and Washington, confirmed beyond all doubt the claims made for CONDUCTIVITY CONTROL as practiced with 4% 886 in the two-bath method.

R. R. STREET & CO., INC. 561 W. MONROE ST. CHICAGO 6, U.S.A.

ton, Texas, allows easy removal from either top or bottom rail.

"By having this ramp," owner Bob Kinley says, "we are able to use double-deck storage except for the long bags, which are hung on a separate rail at the back of the alley. This gives us approximately twice the amount of rail storage for the same number of square feet of floor space."

Wetcleans Belts

Analysis showed many more belts can stand wetcleaning than drycleaning, according to F. E. (Ted) Bowers of Parisian Cleaners, Inc., in Lynn,

Massachusetts. So he wetcleans all belts, unless testing shows they can't take it.

This means that when dresses go to the drycleaning department their belts go straight to the wetcleaner. When dry, they are hung by the spotter's station, grouped by lots. After a dress lot has been spotted, the belts are assembled with the proper garments before they leave the spotter's station.

Besides producing more and cleaner belts, Mr. Bowers solved a problem of missing belts that had been plaguing the plant. They just can't get lost any more!

Speeds Plant Handling



A 45-foot endless conveyor brings finished garments from the silk and wool finishing department and from the sewing and repair department to the checkout and final inspection station at White-way Cleaners, Laurel, Mississippi.

A 7 1/4-foot, 3-inch-diameter metal post at each end of the conveyor supports the 12-inch-diameter wheels. Three-sixteenth-inch preformed wire rope is used for the conveyor. A 1/4 hp. motor furnishes the power.

There is a two-way switch at each post which turns the conveyor on and off. It is allowed to run during the day or until the finishers have completed their work.

At the inspection-station end of the conveyor, a lightweight pipe extends out 36 inches from the post, covering the wire of the conveyor. Hanger hooks coming to the inspection station on the wire conveyor slide onto the 36-inch section of pipe, where the hanging garments are removed by the inspector.

According to owner J. P. Culpepper, shown at one of the switches, the conveyor greatly speeds plant handling and does away with unnecessary walking.

Invoice Costs Cut

At Marvel Cleaners in New York City, owner Irving Kleinfeld has found that he can cut the cost on marking invoices by having strip tags printed separately instead of incorporating them with his invoice book. The numbers on tags and invoice book correspond, however, and the two units are kept together on a clip board to avoid loss or confusion.

The strip tag is stapled to the garment together with a color tab which indicates the day of the week for which the garment was promised.

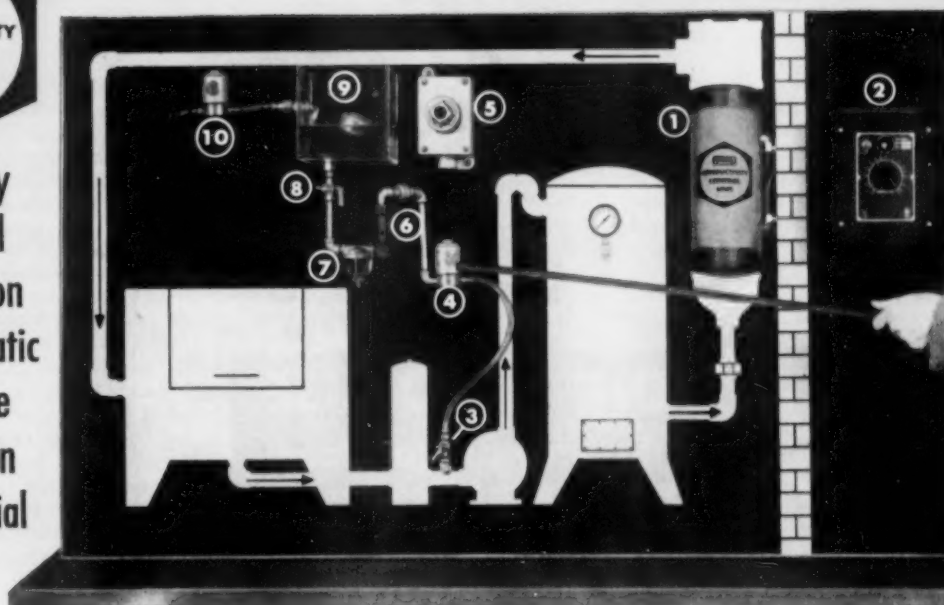
When you dryclean and moth proof your customers' garments, follow through to a completed job by packaging in CEDAR SHIELD Storage Bags. Here is perfect and complete protection against fading, soil and moth damage . . . in your own vault or on delivery to your customers. Insist on the genuine CEDAR SHIELD because it has no equal. Two styles: Standard Cedar Grain without Window and "No Fade" Window style. Order today from your distributor.

WRITE TODAY FOR FREE SAMPLES AND PRICES:

Rassenfoss Bag Company
1904 GROVE STREET • GLENVIEW, ILLINOIS



The only
practical
application
of automatic
moisture
control in
commercial
use



Patents pending for process and apparatus

Here is the electronic control which has revolutionized the drycleaning industry

THE ABOVE illustrates a table model of a completely automatic control for the scientific introduction of water to the filter system, designed and introduced by R. R. STREET & Co. INC.

Whereas conventional methods which introduce emulsions into the drycleaning cylinder result in the humidification of the fabrics in the cylinder, STREET'S electronic method places emphasis on the humidification of all the solvent in the washer-filter system. Through the use of a highly specialized emulsifier, the humidification of the solvent is performed in such a way as to form micelles of a given size and shape which pass freely through the filter. Charged with these micelles, which are invisible but which resemble tiny capsules with the emulsifier serving as the outer shell, the filtered solution flushes from the soiled fabrics water soluble soil heretofore impervious to safe drycleaning methods.

To insure optimum soil removal and optimum safety with this new process, STREET'S developed the above automatic control which provides uniform results from batch to batch and day to day. STREET'S research disclosed that when the filtered solution of solvent and adjunct was humidified so as to produce micelle formation of the desired size and quantity, the electrical conductivity of the solution fell within a narrow range of values. With the benefit of this observation STREET'S developed this apparatus which in-

volves an electrode assembly placed in the pipeline between filter and cleaning cylinder which transmits the electrical conductivity imparted by the humidified solution to an electronic controller. The controller in turn automatically energizes a solenoid valve for further humidification of the filtered solution whenever a drop in conductivity indicates a change in the micelle formation.

When removed from this sparkling clear filtered solution the garments are immaculately clean, free not only from grease, oil and ground-in soil, but also from the water soluble soil which heretofore resisted safe drycleaning methods.

A final rinse in vacuum distilled solvent leaves the fabrics with unprecedented whiteness retention, unprecedented brilliance of colors and with the odorless freshness characteristic of new fabrics.

The table model illustrated above has been of interest to those attending sectional conventions and clinics where it has been in actual operation on the speaker's platform.



R. R. STREET & CO., INC.

561 W. Monroe St.,
Chicago 6, U.S.A.

ASSOCIATION NOTES

Local Meetings: The South Texas Cleaners & Dyers Association, Inc., held its January business meeting on February 1. Gus White of the San Antonio Chamber of Commerce, who was the featured speaker, presented plans to attract new industry to San Antonio.

At the South Texas quarterly meet-

ing of officers and directors on February 22, the group elected two new directors, Rudy Wildenstein, My Cleaner, and W. A. Robinson, Modern Dry Cleaners, both San Antonio, will replace two directors who resigned. At the same time, the officers and directors authorized Virginia Nesbit, secretary, to continue the co-

operative advertising for the association. The South Texas directors also decided to investigate the possibilities of establishing a cooperative buying agency for the members.

About 35 people attended the Southeastern Indiana Dry Cleaners Association meeting in February. Representatives from Shelbyville, Franklin, Columbus, Seymour, New Albany, Jeffersonville, Bedford, Madison and Greensburg were in attendance.

Jack Snitzer of Toronto discussed plant efficiency at the January meeting of the Niagara Division of the Dry Cleaners' Institute (Ontario). He pointed out how new machines and techniques are improving the quality of service to the general public. The Institute also announced a series of advertisements in Niagara district newspapers.

Members of the Bay of Quinte Dry Cleaners Division of the Dry Cleaners' Institute (Ontario) met on February 3. Hartley Currie, manager of the Institute, discussed Toronto zoning legislation.

The Dry Cleaning Association of the Valley met recently in Mercedes, Tex., to plan a new drycleaning school. Scheduled to start on February 15, classes were to meet for two weeks during the evening at Haynes' Cleaners in Harlingen. Sponsored by the extension division of the University of Texas, the classes were to be conducted by C. E. Barr, who is connected with the university and is a member of the Texas Dry Cleaners association. The course was open to managers and employees of drycleaning establishments, home economists, and personnel of any firm dealing in fabrics.

C. L. Curtis, president of the Valley group, presided at the meeting and introduced Mr. Barr and W. P. McMahan, guests of the evening.

#

California Plans: Plans for a cooperative advertising program on television in the Los Angeles area are just about complete, reports the California Drycleaners Association, Inc. By joining the Los Angeles group, according to the association, a dry-cleaner gets the benefit of 13 weeks of TV time—worth about \$7,000—for \$25. If the plan is successful, it will be extended statewide.

The group has announced plans

WE DON'T PROMISE
Profits by the wheelbarrow-load!

But **PRE-MARKED STRIP-TAGS**

will multiply your profits
by cutting marking **50%**
and checking costs to

Say "Goodbye" to

- Transposed Numbers
- Ink-stains - Damage
- Garment Loss Claims
- Illegible Numbers • Eye-strain
- Messy Pads and Machines

10
Bright
Colors!
Lot (unit)
numbers
1 to 40 in ea. color.

400 COLOR-NUMBER COMBINATIONS

\$3.50 Box (colors) ★ \$3.30 Box (white)

6 Tags to the strip - 1,000 Strips to the Box, numbered 001 to 1,000

ALSO- don't forget TOKEN TAGS FOR SPECIAL- INSTRUCTIONS

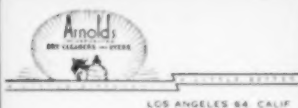
6-VIVID COLORS, one for each Department ★ 20-Separate Instructions

Let TOKEN TAGS do it right-the first time!

For best results, use both tags together!

Consult your Distributor.....or write to:

PRE-MARKED STRIP TAG CO. 3232 India, San Diego, Calif...P. O. Box 2430



LOS ANGELES 84, CALIF.

"Our thanks to you and your staff for your excellent accomplishment, which mean so much to the dry cleaning industry."

R. A. Emley

MORCENTHALER'S
CLEANERS AND DYERS, INC.

ST. LOUIS 1, MO.

"... with the installation of conductivity control on our washers... we have finally exeeded the ultimate in fine dry cleaning."

Eugene F. Morcenthaler



SEATTLE 44, WASHINGTON

"... after nine full months of 886 4%, extractor rinse, and the Conductivity Control Unit, 'Time' has proven to us that this is it."

Arthur A. Stom

DON SCHEERW Ltd.
SCIENTIFIC & ODORLESS DRY CLEANING
Halifax, Nova Scotia

"... take this opportunity to congratulate you on what I believe to be a boon to the dry cleaning industry."

Don Scheerw

**HOWARD ODORLESS CLEANERS
& LAUNDERERS, INC.**
THIRD AVENUE AT NINTH STREET
BIRMINGHAM, ALABAMA

"... this extractor rinse with the Conductivity Control never ceases to amaze me."

Howard E. Howard

TROY LAUNDRY COMPANY
PORT HURON, MICH.

"Results are uniform, whiteness retention is beautiful and the resulting work is no doubt a factor in the continued growth of this department of our business."

W. J. Gaud

NEWNAM & LUNSON
Dry Cleaning Specialists
653 655 Le Beau Street, Southeast
WASHINGTON 20, D. C.

"We owe you a great debt for developing conductivity control."

Harry E. Newnam



OSWEGO, NEW YORK

"It is sure worth the investment of installing the Conductivity Control Meter."

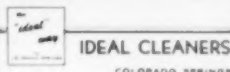
OSUE GO DRY CLEANING



OPERATING BRANCH STORES
Houston, Texas

"Your engineers and chemists have taken the dry cleaning industry from a low level to a high one..."

Don M. Jones



COLORADO SPRINGS

"... I know that these letters express the true thoughts of the men who wrote them because I feel the same way after eight months of using the same process."

O. D. Potts



561 W. Monroe St.
Chicago 6, U. S. A.

The most famous names in drycleaning endorse Street's Conductivity Control

Here are a few of the many leading plant owners who report greatly increased production through the use of 4% 886 and the automatic electronic controls.

for its annual convention, which will be held the Memorial Day weekend, May 28, 29 and 30, at the Huntington Hotel in Pasadena.

#

Louisiana Election: The following new officers were elected at the January convention of the Louisiana Laundry and Cleaners Association: J. D. Taylor, Taylor's Cleaners, Winnfield, president; Mrs. Tom Adams, Adams Cleaners, Monroe, secretary-treasurer, and Willis Pellerin, Pellerin Milnor Corporation, New Orleans, sergeant-at-arms. William H. Fisher,

Jr., Memphis, Tenn., has been retained as marketing counselor.

Held on January 23 and 24 in Alexandria, the convention was presided over by Calvin Weiser, president, and J. D. Taylor, vice-president. Among the featured speakers were: Clarence W. Neu, American Laundry Machinery Company; Robert O. Brown, American Institute of Laundering; Willis Pellerin; G. V. Brendel, U. S. Hoffman Machinery Corp.; Herb Yates, Butler Manufacturing Company; Ernie Heidersbach, R. R. Street & Co. Inc.; Dr. Dorothy S. Lyle, National Institute of Drycleaning, and Clayton Rand.

New York NCA Election: Election of officers and directors of the Greater New York chapter of the Neighborhood Cleaners Associations took place on February 24. The following slate was elected: Irving Golin, Brooklyn, president; Louis Jacobs, New York, executive vice-president; Harry Schumacher, Jackson Heights, and Robert Gelman, Brooklyn, vice-presidents; David Scherzer, New York, secretary, and Walter Wasserman, New York, treasurer.

The board of directors includes: Milton Baillie, New Hyde Park, L. I.; Norman Cohen, Bronx; Thomas Fortune, Brooklyn; Kurt Liegner, Maspeth, L. I.; Samuel Ratafia, New York; Seymour Reiner, New York; Seymour Rosen, Brooklyn; Murray Sherman, Elmont, L. I.; Leonard Stricoff, Bronx.

#

Jerseyites Meet: The Dry Cleaners Guild of New Jersey held its second reorganization meeting on December 17 in Teaneck, and prospects of a strong organization seem very bright. Ten more drycleaners signed up for membership, bringing total membership to about 30.

Outside speakers were Robert Grand, a certified public accountant, who discussed sound planning. Dr. Samuel Machlis of Stamford Chemical Co., who spoke on the charged system; Arthur Gehaw of the Westwood (N. J.) Laundry, who commented on the benefits of a strong association, and Phil Greene, editor of NATIONAL CLEANER & DYER, who discussed the industry outlook for 1954.

#

NCA Fights Proposals: The zoning amendment that passed the New York City Board of Estimate on February 18, 1953, contained a provision for rules and regulations to be issued later. Neighborhood Cleaners Associations reports that severe measures it has fought to be removed from the zoning amendments now appear in these rules and regulations.

At a meeting held on February 24, 1954, the New York City NCA decided to attend hearings to be held soon to protest the proposed rules. According to NCA, these are the worst features of the proposed regulations:

Existing plants are only partially protected from the sweeping provisions. The fire department is given licensing power not granted in the original legislation. The fire department supervises perk plant operators. The rules place every store opened after January 1, 1954, in jeopardy. No drycleaning plant may be within 20 feet of a non-fireproof building.

Leaning on thin air? . . .



When drycleaning volume falls off to lower levels the drycleaner needs something more solid than thin air to lean on. MONITE Mothproofing, the proven key to greater cleaning volume, is your answer. Here is the solid foundation to sales thru a plus-service . . . an incentive for customers to buy not just cleaning . . . but MONITE Mothproof cleaning.

No extra labor or equipment required — applied in the wheel — your cost is only 1 1/4 cents per average 3 lb. garment.

FOR 20 YEARS
THE GREATEST
ADVERTISING MEDIUM
OFFERED THE
DRYCLEANING INDUSTRY



For complete details — Adco, Inc. Call, Wire or Write
Manufacturing Chemists Since 1908
Sedalia, Missouri, U. S. A.



Go to the "wet side" for amazing results—
CONCENTRATED VACUUM
does it!

and you get it **ONLY** with
THE CISSELL
VACUUM
SPOTTING
BOARD

POWERFUL VACUUM on both nose of board and swinging sleeve board. Left pedal releases: 1. A feather of dry steam. 2. Dry steam. 3. Moist steam. 4. Wet steam. Plenty of heated compressed air for quick drying. Both boards have stainless-steel frames and white Vitrolite tops. Vacuum areas are perforated, stainless steel with fine nickel screen covering. Air-cooled, cork-handle spotting gun has removable tip. Screen assembly, Vitrolite top and chemical tray easily removed for cleaning. Automatic check valve releases all chemicals and water from a "built-in" vacuum separating chamber to a large drain receptacle. *Harmful chemicals are not carried into vacuum system.* Large chemical tray; handy stainless-steel spatula, brush holder and two large pans provided for the ultimate in convenience. Available for central air vacuum or with built-in steam vacuum. \$310, F.O.B. Louisville, Ky.



Note large working area on nose of board with concentrated vacuum in center. All-over plate perforation plus powerful vacuum prohibits soil from "bouncing back".

Above: Nose of board with plate and screen covering. Middle: With screen removed to show all-over plate perforation. Below: With screen and plate removed to show concentrated vacuum feature.

EVERY FEATURE FOR THOROUGH SPOTTING

Cissell Patented Concentrated Vacuum permits use of wet steam . . . keeps wetted areas from spreading. Cuts wet-cleaning and re-cleaning to a minimum . . . solves, once and for all, the time-wasting spotting bugaboo as it eliminates feathering, sizing rings, discoloration, "blow off" with dry steam, drying in tumbler, re-inspecting. No lost motion. Large areas of perspiration are spotted and dried with ease. Cissell provides independent foot-pedal control for vacuum, necessary for dry spotting. In "dry" spotting, the Cissell Concentrated Vacuum provides rapid drying . . . removing solutions such as carbon tetrachloride and loosened soil without a "dry" ring.

CISSELL

W. M. CISSELL MANUFACTURING CO., INC.
 831 S. FIRST ST., P.O. BOX 1143—LOUISVILLE, KY.
 Pacific Coast Office—4823 W. Jefferson Blvd., Los Angeles
 Foreign Distributors Write Export Dept.—Cable Code: CISSELL

Consult Your Jobber



IT'S
LIKE
MONEY
IN
THE
BANK!

COLUMBIA

HRT OIL OR GAS FIRED BOILER

Two simple facts about the Columbia Boiler add up to your getting more for your fuel dollar. It produces more steam because it has a larger heating surface than most boilers of the same rating. And its large steam space assures dryer steam. Your fuel savings add up to money in the bank! Look at all 10 reasons for owning a Columbia HRT*, then send the coupon and find out how little it costs to own.

*Horizontal Return Tubular type

Gentlemen:

Without obligation, please send me information on how I may reduce operating costs in my plant by switching to a new Columbia HRT* Oil or Gas Fired boiler.

Firm name

Address

Your name

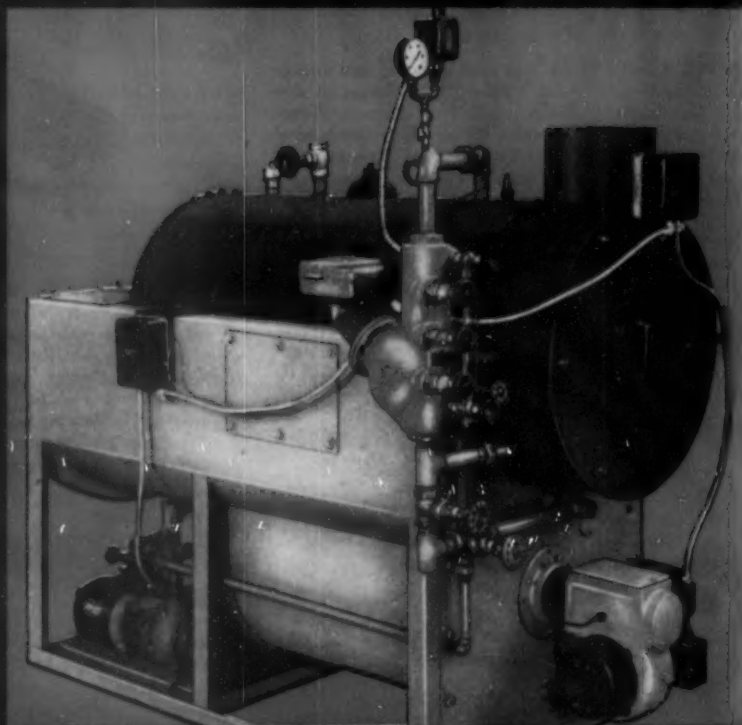
Position

DEPT. N-44

10

"MONEY IN THE BANK" REASONS FOR OWNING A COLUMBIA!

1. Larger combustion chamber permits overfiring.
2. Easy access to the single bank of tubes from front and back.
3. Two-pass updraft minimizes draft loss and insures greater safety.
4. Removable covers make all parts accessible.
5. Large steam space insures dryer steam.
6. Greater heating surface than most boilers of same rating, resulting in higher steam output.
7. High efficiency through proper proportion of two-pass heating surfaces.
8. Completely submerged tubes insure longer life.
9. Combustion chamber factory-installed with especially designed refractory insulation, minimizing heat loss.
10. Inexpensive, yet built of the best materials to give years of trouble-free service.



COLUMBIA BOILER CO. • OFFICES & FACTORY: POTTSTOWN, PA.

***Make
This
Easter
Parade
a Year
Long***



here's how

DETREX

Can do it for you!

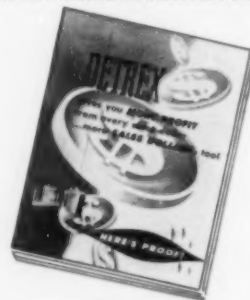
FOR A BIGGER, BRIGHTER BUSINESS

Lack of Capital?

It is possible to LEASE a Detrex Coronet and Synth-O-Saver. See coupon below.

DETREX CORPORATION
Dept. DD-500a
Box 501, Detroit 32, Michigan

- ☐ Send me all the facts on how I can build bigger business and more profit with the Detrex Process.
- ☐ Send me all the facts on the new lease arrangement for the Detrex Coronet.



NAME _____

COMPANY _____

ADDRESS _____

CITY _____

ZONE _____ STATE _____

Bet you'd like to keep your Easter volume all the rest of the year! Well here's a sure-fire way to do it . . . and with fewer operating headaches, higher profit per garment, too. Buy yourself the Detrex Two-Bath Process.

To begin with, Detrex enables you to give fast service without losing quality profit or production. This means that you build volume from new customers who need cleaning at the last minute.

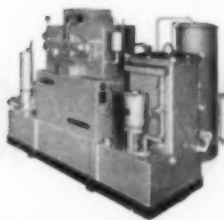
Added to that, the extra quality, the like-new color brilliance, the luxurious soft texture that the Detrex Two-Bath Process gives is immediately noticeable. It can't be missed by anyone. As a result, most of these fast-service transients become steady customers on a regular basis. And your old customers will be back for more frequent garment "renewing". If you don't believe it, just ask the nearest Detrex Two-Bath operator!

On top of all this your costs go down because re-runs and wet cleaning are all but eliminated. Hand spotting is needed on the most stubborn cases only.

We have a booklet that will give you all the facts on how the Detrex Two-Bath Process builds volume, makes you more money per garment and does away with your worst operating headaches. You get it free when you use the coupon at the left . . . Send it in today to DETREX CORPORATION, Box 501, Detroit 32, Michigan, Dept. DD-500a.



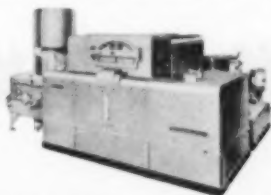
SEE FUTURE **better buy DETREX**



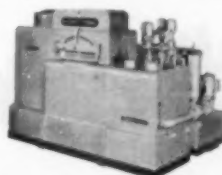
DETREX CORONET—to build a bigger business future with low initial investment. Standard or Two-Bath Cycle.



DETREX SYNTH-O-SAVER—the miser-like running mate of all Detrex cleaning machines. Puts extra profit in your pocket as it keeps your solvent cost at rock-bottom.

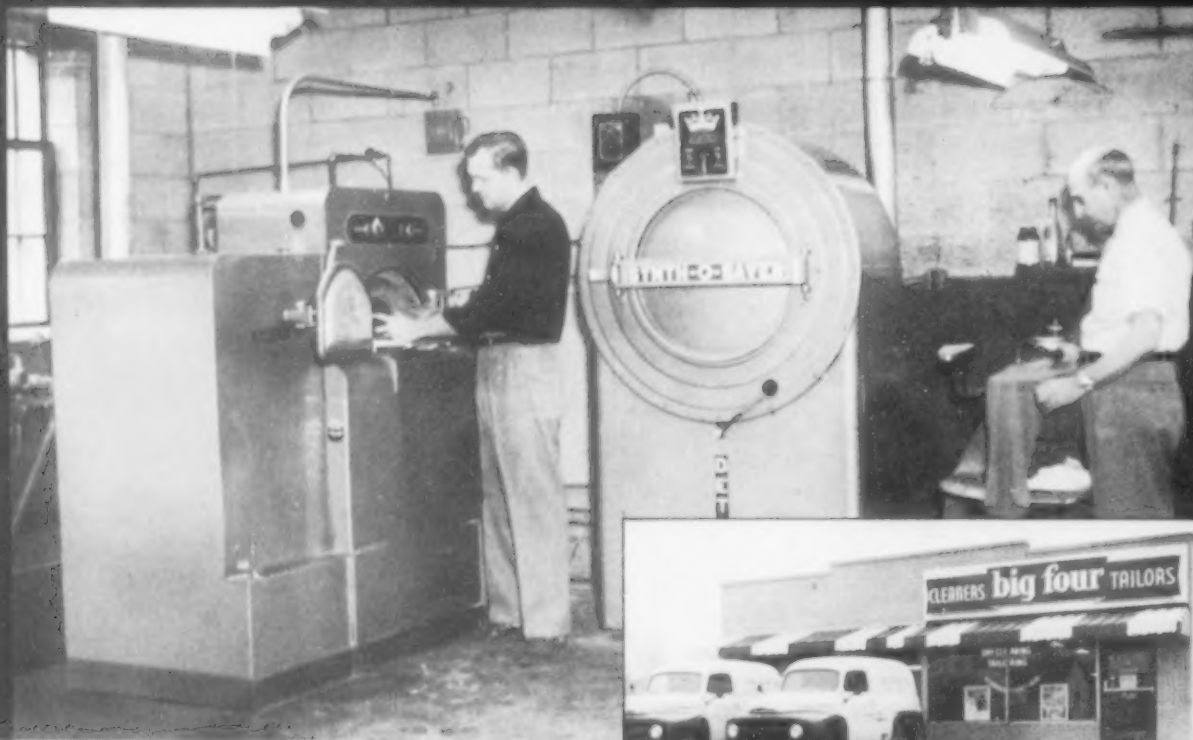


DETREX AMBASSADOR—if BIG volume is your requirement, the Ambassador tops them all with over 200 lbs. hourly capacity with Two-Bath Cycle.



DETREX MONARCH—the work horse of the industry with over 100 lbs. hourly capacity. Standard or Two-Bath Cycle.

See DETREX Profits in Action—NEXT PAGE



Story of **BIG FOUR CLEANERS** KENMORE, N.Y.

Big Four Cleaners, 2482 Elmwood Avenue, Kenmore, New York, bought a standard Monarch in July, 1952 and converted to a Two-Bath operation in March, 1953.

In the little more than one and one-half years since the installation of their Detrex equipment, business has doubled. This would be a remarkable increase for any cleaner, but with Big Four, it is even more significant. For Big Four had been serving this growing suburb of Buffalo for twenty years and always had a reputation for fine cleaning.

However, as John Trippi, one of the three active working partners, points out, "With the Detrex Process, the quality of our cleaning, which we always maintained at the highest possible level, improved immeasurably."

Tom Carpentio, another partner, says, "Prompt service, which has always been our aim, became a reality with less effort and at no extra cost."

Angelo Federico, the junior member of this successful team, points out, "We have customers who regularly come in all the way from Niagara Falls, Lockport and Kensington attracted by the quality of our cleaning. And from our point of view, re-runs, spotting and wet cleaning have been reduced to a minimum."

Operating two trucks on a route and handling a steady flow of cash-and-carry business, the three partners rely on their Two-Bath Monarch and Synth-O-Saver to turn out their increased volume on time and keep their customers satisfied with the highest quality cleaning obtainable.

YOUR LOCAL DISTRIBUTOR

Your local Detrex Distributor is a well established business man in your locality. He is trained to know and explain the Detrex Process. He is intimately acquainted with drycleaning and the drycleaning business. He has available complete facilities and qualified personnel to give you prompt, efficient service.

Rely on him for all your drycleaning equipment needs. Your guarantee that he will serve you well lies in his desire to maintain the highest business reputation in your locality. He not only is doing business there today but for many years to come.

DETREX CORPORATION

Dept. DD-500a

Box 501, Detroit 32, Michigan

EDITORIALS

The Charged-System Surveys

The charged-system panel at the recent NID convention was, for many who attended, the most interesting of all the sessions. While the findings reported were not exactly startling, a number of points were clarified and a lot of figures on actual charged-system performance were offered.

The speeches were published in last month's NATIONAL CLEANER & DYER, and if you didn't hear them in Washington or haven't read them in the magazine, you'll find them well worth your study now.

All of the speakers were Institute staff members. George Fulton, research director, reported on charged-system performance as indicated in 152 test bundles, with particular attention to graying and removal of water-soluble soil. Clarence Pierce presented the tabulated results of 800 replies to a charged-system questionnaire sent out to all NID members. Jack Ireland wound up the panel with suggestions on how to overcome some of the serious problems revealed in the preceding talks.

Let's look at the problems first.

—Thirty-five percent of the plants reported still difficulties. Although the report didn't say how many of the noncharge plants are having still trouble, there seems to be no question but that the charged system with its extra moisture does require more care in distillation.

—High humidity and shrinkage problems go together, especially in petroleum systems. Close control of solvent relative humidity, particularly in the South, is needed. Although it wasn't brought out in the speeches, we understand that the test bundles indicated that soft wools and high humidity are a trouble-making combination.

The questionnaires showed that half of the plants are on a 4 percent charge, but that only 24½ percent of the petroleum plants and 14½ percent of the synthetic operations are using any type of moisture-control device. Apparently some 4 percent drycleaners are flying by the seat of their pants.

—In the matter of graying, the superiority of the two-bath system appeared to be very pronounced. Forty-five percent of the two-bath plants held graying below 2 percent. The one-bath plants and the no-charge plants were far behind in this category, hitting 16 and 17 percent respectively.

Only 5 percent of the two-bath plants were found at the other end of the scale, where graying exceeded 6 percent and where customers are likely to complain (with good reason). Twenty-one percent of the non-charge plants were found to be in this group, and 13 percent of the one-bath-ers.

You might sum up the redeposition findings by say-

ing that 54 percent of the no-charge plants, 68 percent of the one-bath plants, and 80 percent of the two-bath plants were doing a fair to excellent job in this respect. The rest of the plants weren't getting the work clean.

—The water-soluble-soil findings demonstrated that two-bath cleaning cuts down spotting and wetcleaning far more than the other two classifications. Unless more than 10 percent of the water-soluble soil is removed, spotting and wetcleaning aren't affected very much. Only 15 percent of the two-bath plants were removing less than 10 percent, while a whopping 75 percent of the no-charges fell into this category. Of the one-bath plants, 41 percent weren't helping their spotting and wetcleaning to an appreciable extent. None of the no-charge plants removed more than 29 percent of the water-soluble soil, only 3 percent of the one-bath-ers did, and 33 percent of the two-bath operations removed 30 percent or more.

There seems to be no question but that the two-bath installations which had bundles tested are doing a better cleaning job than the rest.

More findings will doubtless be forthcoming as the test-bundle service gets rolling.

Wanted: Good Press

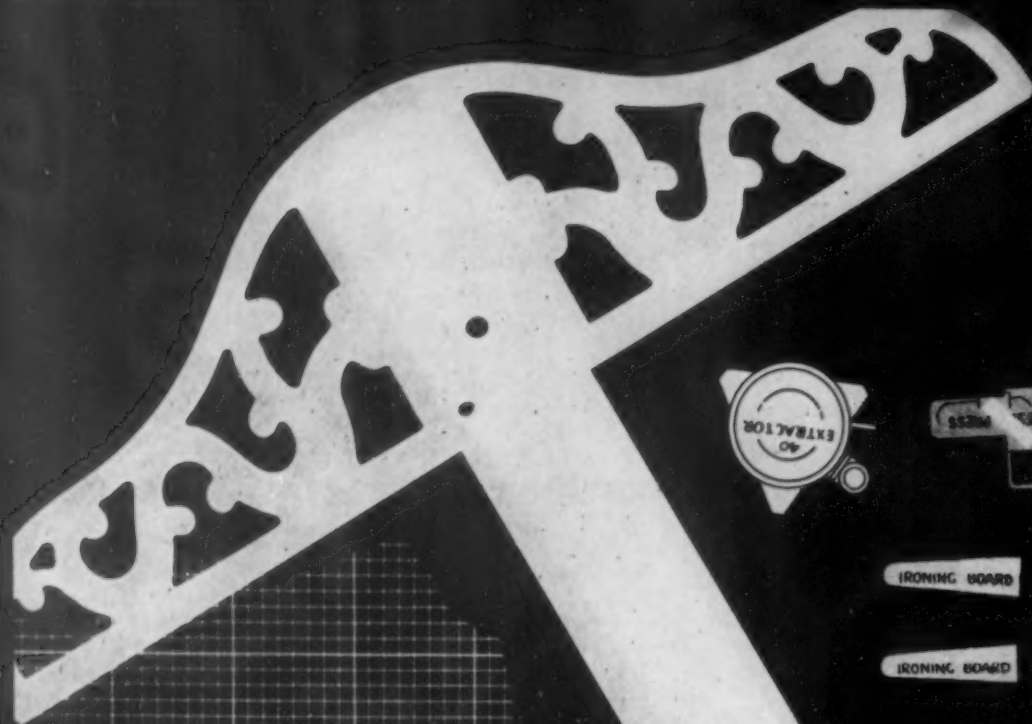
We can't resist getting in one more bravo for the Institute's public relations program. Nobody needs good public relations more than the drycleaners, unless it's the laundries.

Two clippings which seem to be typical recently crossed our desk. Both—one in Cincinnati and the other in Vancouver—included comment by newspaper columnists.

The Cincinnati item reported a sign in a drycleaning shop: "We Don't Guarantee Nothing." Bully for this drycleaner. If his customers pay any attention to the sign, he should be out of business in no time.

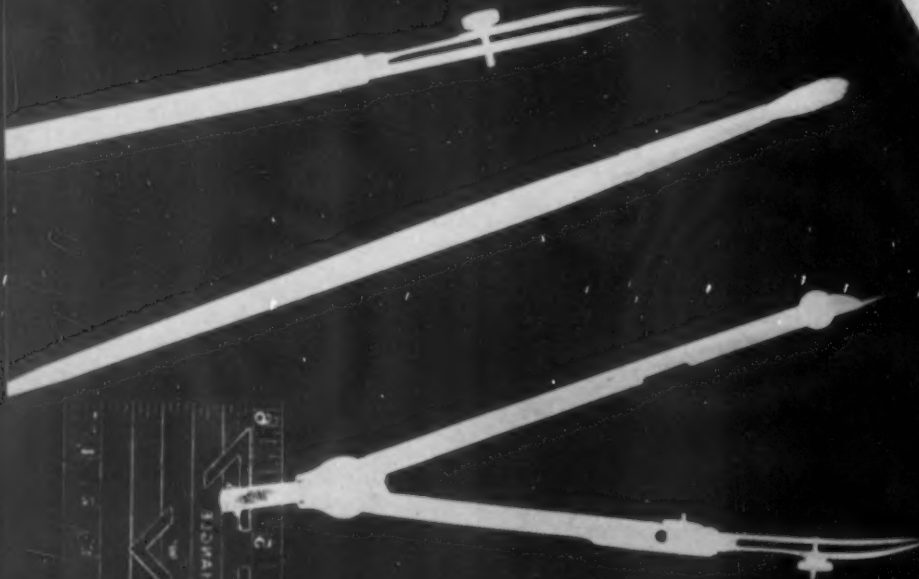
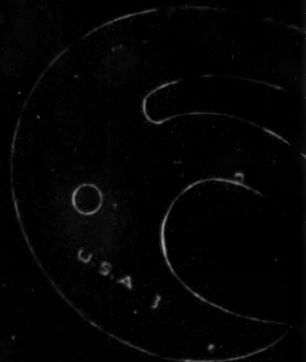
The Vancouver report was one of a dreary succession. Someone in the columnist's family sent a sweater which the cleaner lost. The sweater had a high sentimental value, cost \$6.95, and was a year old. The cleaner settled for \$2.50. The customer said that she was going to continue sending her things to the cleaner, but that she wouldn't forget her grievance for a lousy \$2.50. The columnist wound up by saying that her action should be "enough to disturb the sloppy manager of a cleaning establishment."

Our press certainly leaves plenty to be desired, doesn't it?



IRONING BOARD

IRONING BOARD



INTRODUCTION

THE CONTENTS of this Guidebook will undoubtedly surprise a great many readers. The pages that follow contain only two complete layouts. Here is why.

When the issue was first planned and the subject selected, we figured that most of the space might best be devoted to samples of outstanding plant layouts.

The more we got into the subject, however, the more apparent it became that such an issue would leave most of the tough layout problems unanswered. Each such layout would meet a particular set of conditions or limitations, but only in rare cases would a reader's situation exactly or nearly match that shown in the sample. You, as a reader, would have to pull a bit out of one layout, a corner out of another, and thus try to piece together something that would work for you.

A far better approach seemed to be this. Although each layout is different, each has to solve four problems:

1. It must provide a means of handling the services to be offered.
2. It must be geared to the speed of service offered.
3. It must take into consideration the source of volume.
4. It must provide a means of handling X number of pounds and pieces.

With the answers to these problems, a reader could then go on to the next logical step—that of providing the work stations and equipment needed to meet the requirements he had already established.

By means of time studies and countless experiments, experts in the field of drycleaning layout—we are thinking particularly of the work done by the National Institute of Drycleaning—have developed the "building block" method of setting up work stations. They found that almost any productive function could most efficiently be handled by a particular arrangement of equipment and personnel, and that these unit arrangements work equally well in both large and small plants. The more capacity required, the more units.

Accordingly, the means by which a plant-owner may analyze his needs, and a detailed explanation of the building-block system have

been allotted more than two-thirds of the space in this issue. The two complete layouts shown are to illustrate the means by which the units may be fitted together, using two typical plant shapes and areas as the physical limitations. We have tried to show you how to solve your own individual layout problem instead of handing you the completed solutions to other people's problems.

Compressing the text into the space available made it necessary for us to limit the discussion to basic productive layout. Layout affects and is affected by a great many other closely related factors that will have to be covered separately in greater detail.

A Word on Costs

Another very important aspect of layout that has been omitted is costs. We found that costs vary so much that it is almost pointless even to generalize on them. How much you plan to do, the type of equipment involved, your locality, the skills you have available on your own staff—all these and other factors affect what you are going to have to spend. The same foot of slickrail, for instance, might cost one man 75 cents and another man \$2.50.

There are two basic, proven principles that you ought to keep in mind. One is that good, modern equipment is the cheapest in the long run. The other is this: It is cheaper to bring the equipment to the man than to bring the man to the equipment. If an employee has to walk or wait when another press or a better washer would permit him to keep busy, every minute that you postpone buying that equipment is costing you money.

Look at price tags in terms of potential savings. The right equipment makes money; it does not cost money.

Here is a good example: If a press costs \$800 net, allowing for trade-in, and is depreciated over 10 years, its cost is \$80 per year. On the basis of an eight-hour day, there are 2,080 working hours in a year. Dividing \$80 by 2,080 we find that the machine costs less than four-tenths of a cent per labor hour. If adding this machine to others in a unit makes it possible for the operator to produce just one more piece of wool per hour, the machine has more than paid for itself in the first year. During its useful life it will have paid for itself at least ten times over.

First Analyze Your Sales and Volume



A GOOD PLANT LAYOUT is the end result of proper analysis and planning. Whether you are laying out a new plant or revamping an existing operation, a number of very important facts should be gathered before a single new machine is purchased or one slickrail location is changed.

Good layouts cost money but pay off quickly in lower production costs. A poorly planned layout just costs money.

It is almost impossible to plan a layout properly without having first gathered certain basic data. This section of the Guidebook explains what data is needed, why it is needed, and how to collect and apply it.

Select Services Carefully

First of all, every plantowner should decide what services he is going to offer his customers. Each service should be seriously studied to see if it is profitable and chosen primarily on that basis. This does not rule out offering a service at a small loss in order to attract customers, but that policy can be risky. The cleaner who offers many services which he cannot process profitably reduces his profit below what it would be if he handled only a few items on a good profit basis.

Services to be offered are a major factor in determining how much floor space, equipment and personnel will be required. Consider the number of different items processed by drycleaners. In addition to the regular cleaning of garments and households, many plants handle hats, furs, leathers, gloves, dyeing, storage, laundry, shoe repairs, paid repairs—you name it. Paid repairs are considered an additional service since they are charged for separately from the regular drycleaning price.

Naturally, the proper way to discover the profitability of each service is to analyze specific costs and compare these costs with sales. In many cases this is somewhat difficult to do

because of the inadequacy of the accounting system used and the problem of recording many small cost items. A practical approach is to determine costs and sales for the basic service—drycleaning garments and household—and then to analyze each additional service on the basis of how much it adds (sales) or detracts (costs) from the efficiency of the basic service.

For example, suppose a plantowner can improve his layout to such an extent that profit on regular drycleaning, which is approximately 96 percent of his total sales, is considerably increased. In order to do this he discovers he will have to eliminate a small hat department which he has maintained for 20 years and now knows to be unprofitable. After considering the possible effect on drycleaning sales of not processing hats, he could wisely decide to eliminate his unprofitable service and at the same time increase his profit on drycleaning sales.

So you see, selection of services has a decided effect upon plant layout.

Fast or Regular Service

In addition, speed of service has an important bearing on the arrangement of equipment and personnel. Service offered by drycleaners probably varies from one hour to one week on a regular basis. During peak periods most plants extend their service time, which poses no special layout problem. Shortening the service, however, does complicate the situation.

First of all, as service is shortened to under two days, productive labor costs begin to rise. It is necessary to have personnel available to process a garment as quickly as possible, but it is not always possible to have work

available for the employees throughout the entire day. In effect this means a greater investment in equipment per unit processed than in a plant where promised delivery is longer.

Speed of service can also have a direct influence on marking and assembly facilities. This is true both when speed of total service is short and when "specials" requiring quick processing are a measurable proportion of total sales. When speed of all services is short, it is quite often necessary to arrange for more marking stations so that a number of employees can mark at the same time. Likewise, the area required for assembly is often increased. When "specials" are heavy, additional assembly area is required to process them quickly. On the other hand, some services such as household, dyeing, paid repairs and the like are promised for longer delivery time and these, too, require more floor space and/or more employees.

Source of Volume

Another factor affecting plant layout—and one requiring analysis—is the percentage of sales volume handled by each type of sales outlet. The usual sales outlets are, of course, routes, branch stores and a plant call office. When the percentage of business done by routes is high, it is necessary to consider amount and location of route storage in relation to easy exit from the plant.

The location of the marking department is considerably affected by the amount of business coming in by routes versus that received at the plant call office. In fact, this quite often determines the location of the marking department. Another variable must also be considered. Quite often

marking and/or assembly is done by branch stores, which affects the amount of space and personnel required in the plant for these functions.

Pounds and Pieces

Perhaps the most important information a plantowner should have before layout is begun is knowledge of the pounds and pieces processed at the various seasonal sales volumes, and total pounds and pieces for the entire year. This data should be matched by sales for various periods and with annual sales. This information is extremely important to sound layout planning.

A record of sales alone is a poor measurement to use in establishing production requirements because there is very little direct relationship between sales, pounds, number of pieces processed, direct costs and price. One hundred dollars sales of overcoats has a rather unimportant relationship to \$100 sales of silks. There would be no good poundage comparison, to say nothing of the great difference in the number of pieces represented by the same sales dollars worth of overcoats and silks. Production cost comparisons are valueless in this connection because labor costs required to handle the overcoats would be much less than those needed for the silks. Prices in the drycleaning industry bear little or no relationship to production and sales costs.

What is required for intelligent analysis is a record of pounds and pieces for each type handled. This information can be obtained in several ways.

Perhaps the most accurate way is to make a direct piece count from each invoice. This procedure is not as difficult or laborious as it might appear. In every plant the invoice has to be handled at least once for the fundamental purpose of totaling sales. It is quite often handled in one of its carbon copies for cash control and customer control. In any event it is a

Weekly Piece Count Analysis

Item	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Weekly Total	Total To Date
Trousers								
Men's Suits								
Ties								
Top- & Overcoats								
Shirts								
Sack Coats								
Dresses								
Skirts								
Ladies' Suits								
Blouses								
Long Coats								
Belts								
Miscellaneous								
Totals								
Sales								

Figure 1

simple procedure for the person who totals sales to make an accurate piece count, and it shouldn't require more than one hour per day.

Tools required for this task are a multicounter machine and a simple prepared recording form. Actually the job can be done without a multicounter, although this device definitely simplifies and speeds up the clerical work required. A multicounter is simply a series of individual counters, like those used to record the number of people entering a gate at a sports or show event, set in banks. Each counter in the bank has a key which is depressed each time a certain item is to be recorded. Places for noting the item, such as trousers, skirts and the like, are available above each key, and a separate dial reading for each classification maintains individual item totals.

The form used to record individual piece counts can be as simple or detailed as desired. A good one is shown in Fig. 1 with some items listed. This can, of course, be modified as required. The form provides for individual counts for a number of items

separated in general groups of wools and silks. Information on household and other service items could be obtained by either enlarging this form or providing a separate one.

Totals are made for each item each week. In addition, a column is provided to currently record the total for the year to date. This information can be directly compared to weekly sales and sales for the year to date.

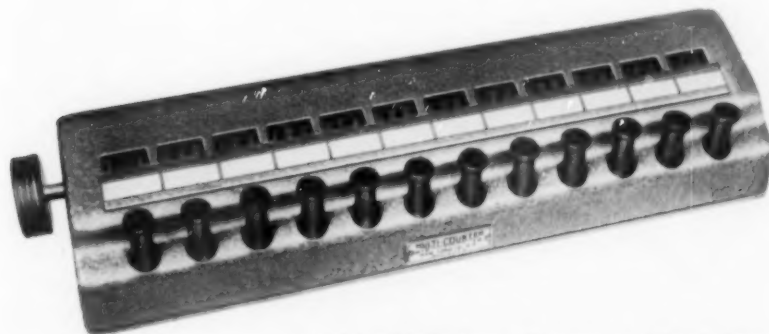
Any plant management armed with such a piece-count record kept over a period of a year could tell precisely the type and amount of equipment it required.

Actually, there are several other ways piece-count information can be obtained. One other method is known as a lot marking record. Using a form listing all of the usual types of garments with columns for counting, a marker can tally items as she marks in each invoice. This method provides good information but it has the disadvantage of reducing the productive efficiency of the marking operation. It also places responsibility for record keeping on an employee who is usually not as interested in management functions as an office employee.

There is still another way of obtaining piece-count information for developing a good plant layout. It is through the use of a formula which can be applied to nearly every plant operation. While not as accurate as a complete annual piece count, it is nevertheless very practical and has been used with considerable success on all sizes of plants.

However, before this formula and its application are explained, let's consider just what use should be made of all this information on pounds and pieces.

Behind the reasons for gathering



MULTICOUNTER shown will record 12 different volume classifications. Devices are made with any number of keys

accurate statistics lies a philosophy of why productive labor costs are high in so many drycleaning plants. Fig. 2 charts drycleaning sales in a typical plant for one year. Every plant has its own sales curve, with peaks and valleys occurring at different intervals throughout the year (February is a peak month in Florida and a slack month in Pennsylvania), but most plants do have these great fluctuations in sales volume.

Herein lies the root of the high labor cost problem. Most plants are geared up (have equipment and personnel) for the high or nearly peak weeks and months. Their costs are satisfactory for these brief peak periods but far too high for most of the year. Result: average to low annual profit or possible loss. The plants are laid out for the exceptions, the peak periods which come up only a small percentage of the time.

It makes a lot more sense, we believe, to plan for the volume coming in a large percentage of the time. Gear up your plant for the average sales week of the year and plan that week to consist of 40 working hours. Provide equipment and people for that average week. As volume increases, working hours can be increased up to 50 hours, thus increasing plant capacity up to 25 percent above average. As volume shrinks, working hours can be reduced down to a practical 30 hours.

Again referring to Fig. 2, notice the three dotted lines. These show plant capacities for the 30-, 40- and 50-hour weeks just described. They show that the same year-round employees can produce the required volume for all weeks of the year except the few peak weeks and the few weeks of greatly reduced sales income. The reasons for choosing a 50-hour week as maximum and 30-hour week as minimum are somewhat arbitrary, but are practical none the less.

When an employee has worked 50 hours and worked well, he or she has reached a practical limit of physical endurance and cannot be expected to work longer with much efficiency. On the other end, when an employee's earnings have been reduced to 30 hours' pay, even for only a brief period, it is not practical to expect him to work for less and still be able to meet his regular obligations. The same employees who work for less than 40 hours' pay some weeks receive much more than 40 hours' pay for others. It is an equitable situation.

This point is most important. Use piece-count records to determine plant production requirements for an average sales week. The records will also

show how much variation to expect above and below that week, and approximately at what time of year.

A Formula for Pounds and Pieces

Now let's examine a formula for determining pounds and pieces, and see how this information can be used to indicate plant layout equipment and personnel needs. We'll take a typical small plant for an example. You can substitute your own figures for those of this plant.

Only two basic facts are required: annual sales and the base price. For this purpose the base price is the average price charged for a man's two-piece suit and a plain dress. If you have different delivery and call prices these must be averaged according to the percentage each occupies of total sales.

Calculations of base price for our example are shown in Fig. 3. The call-office prices for a man's two-piece suit and plain dress are \$1 and \$1.10 respectively. This, of course, averages at \$1.05. Similarly, delivered prices of \$1.15 and \$1.25 average at \$1.20. Analysis of sales volume shows that call-office business represents 60 percent of all sales while the other 40 percent is delivered work. Weighting the two averages gives us a base price of \$1.11.

Annual sales are \$78,000 which, divided by 52, shows "average" weekly sales to be \$1,500. With these two facts—average weekly sales of \$1,500 and base price of \$1.11—we can apply the formula.

Dividing the base price by 2 gives a figure called the income per pound on a yearly average. In our example, dividing $\frac{\$1.11}{2}$ shows \$.555 as the income per pound. It follows logically that if we divide the average weekly sales by the income per pound we will have the average weekly pounds processed. Over a period of time you will

Item	Call-Office Price	Delivered Price
Man's Two-Piece Suit	\$1.00	\$1.15
Plain Dress	\$1.10	\$1.25
Average	\$1.05	\$1.20
% of Total Sales	60 %	40 %
$.60 \times \$1.05 = \$.630$ $.40 \times \$1.20 = .480$ Base Price = \$1.11		

Figure 3

find this amazingly accurate. In our example $\frac{\$1,500}{.555} = 2,700$ pounds average per week.

Over the year garments and household items received by a drycleaning plant average in the following proportions:

Wools	75 percent of total pounds
Silks	15 percent of total pounds
Households	10 percent of total pounds

It is true that these percentages do not hold for every season of the year. They also vary slightly from plant to plant. They are, however, accurate enough to make an engineering estimate for plant layout. In short, they work. As we use these percentages on our sample problem they provide these figures for the "average" week.

Wools	
75 percent \times 2700 pounds	= 2025 pounds
Silks	
15 percent \times 2700 pounds	= 405 pounds
Household	
10 percent \times 2700 pounds	= 270 pounds
Total Weekly Pounds	= 2700 pounds

We now have a poundage breakdown of each of three classifications we can expect to clean.

However, garments are handled in bulk, by pound, only in the cleaning room. For all other operations, except machine wetcleaning, they are handled

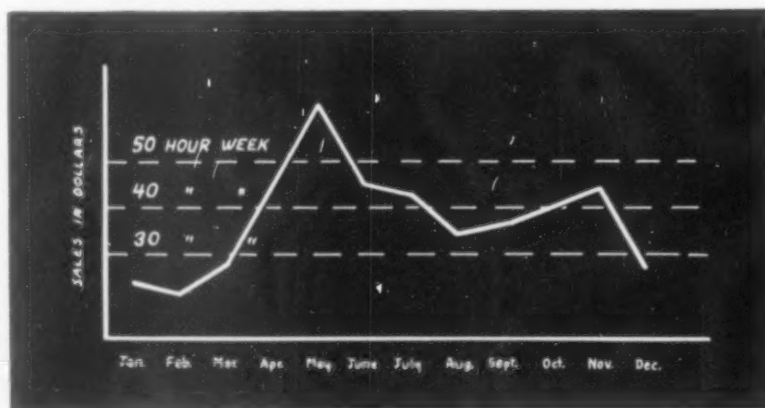


Figure 2

Analysis of Production Hours Required

Operation	Expected Production Per Operator Hour	Number Pieces Per Week To Be Processed	Number Hours Required
Marking	60	1970	32.8 hrs.
Drycleaning	90 pounds/hr.	2700 lbs.	30.0 hrs.
Wetcleaning	12	85 } 5% of wool and silk pieces	7.1 hrs.
Wool Spotting	60	1160	19.3 hrs.
Silk Spotting	30	540	18.0 hrs.
Wool Finishing	22	1160	52.7 hrs.
Household Finishing	10	270	27.0 hrs.
Silk Finishing	11	540	49.1 hrs.
Inspection	100	1700	17.0 hrs.
Assembly	120	1970	16.4 hrs.
Bagging	200	1970	9.9 hrs.
Free Repairs	10	170 } 10% of wool and silk pieces	17.0 hrs.

Figure 4

by the piece. Therefore, we must figure the number of pieces of wool, silk and household for our average week.

Research has found that each of the three classifications averages so many pieces to the pound, or conversely, each piece of wools, silks, and household, when a number are averaged, weighs so many pounds. These ratios are:

Wools	1.75 pounds per piece
Silks	.75 pounds per piece
Household	1.00 pounds per piece

Since we know the average weekly poundages we can determine the average number of pieces:

Wools	
2025 pounds	
1.75 pounds per piece	= 1160 pieces
Silks	
405 pounds	
.75 pounds per piece	= 540 pieces
Household	
270 pounds	
1.00 pounds per piece	= 270 pieces
Total Weekly Pieces	= 1970 pieces

With these figures we can "gear up" the plant by deciding how many work stations are required and how many employees are needed on each type of job. This is accomplished by using minimum production expectations for each operation. These are stated in column 1 on Fig. 4. They represent the minimum amount you should expect for each operation if they are at all efficient. (In practice, many plants exceed these expectations.) They are stated in terms of pieces per operator hour except for the drycleaning operation, which is stated in pounds per operator hour.

Column 2 shows the number of pieces requiring processing in an average week. This information is the same as that computed above with a

few modifications. These appear in the spaces opposite Wetcleaning, Inspection, and Free Repairs. The 85 pieces requiring wetcleaning are an average 5 percent of the total of wool and silk pieces. This is typical. By the same token, the 170 pieces shown opposite Free Repairs represent 10 percent of the wool and silk pieces. The 1,700 pieces requiring inspection are the total of silk and wool pieces.

Household pieces are not included since they are not inspected in the usual routing of this operation. These are actually inspected as they are hung immediately after finishing and the inspection time required is included in the finishing time.

In order to figure column 3 (number of hours required for each operation), divide number of pieces to be processed (column 2) by the expected production per operator hour (column 1).

For example, total pieces requiring marking are 1,970. At the rate of 60 per operator hour $\frac{1970}{60} = 32.8$ hours are required for the week's work. In the same time there are 19.3 hours of wool spotting required and 18.0 hours of silk spotting.

At this point analysis and practical judgment enter into the picture, as the next step is figuring the actual number of operators and work stations required.

Marking requires 32.8 hours so we decide on one work station and one marker, who may be able to handle some other miscellaneous duties.

Thirty hours are needed for drycleaning and since only 7.1 hours of wetcleaning are called for, it appears that one operator can handle these two tasks.

The sum of time required for silk spotting and wool spotting is 37.3 hours: one spotter with suitable equipment.

Wool finishing (52.7 hrs.) and household finishing (27.0) total 79.7 hours. Thus it appears that two operators can handle this work. It also is presupposed that the two work stations can be designed to handle both regular wools and household goods. We will see later that this can be done.

Silk finishing poses something of a problem since it requires 49.1 hours time. Clearly, one complete silk finishing unit and trained operator are required. It also seems necessary that a second silk finishing work station be planned for, even though it may be used only 10 hours a week.

Inspection and assembly are natural functions to tie together. Total time for the two is 33.4 hrs. This can easily be handled by one person.

This leaves us 9.4 hours required for bagging and 17.0 hours for free repairs. In addition we have to provide another 9.1 hours of labor to handle silk finishing capacity.

There are several alternative solutions, although only one more person should be required. One answer would be for the person doing Free Repairs (17.0 hours) to handle some specific items for silk finishing. She might finish those silks she already is handling for repair work. This would total only 26.1 hours and she would actually have ample time for bagging. However, a store clerk might be assigned to bagging and the sewer could

Operation	Work Stations	Personnel
Marking	1	1
Drycleaning	1	1
Wetcleaning	1	1
Wool Spotting	1	1
Silk Spotting	1	1
Wool Finishing	1	1
Household Finishing	1	1
Silk Finishing	2	1
Inspection	Roving	1
Assembly	1	1
Bagging	1	1
Free Repairs	1	1
Totals	11	8

Figure 5

do other miscellaneous tasks as required. She might do some paid repair work if the plant offers that particular service.

As a result of our analysis we have decided upon work stations and employees as summarized in Figure 5.

Now we can determine what production equipment is required. Naturally, we want to select the most efficient units possible.

PRODUCTION UNITS—

The Key to Good Layout

IT IS A SERIOUS misconception to think that there have to be great layout and technique differences between "large" plants and "small" plants. When a plant layout is developed with the thought of efficient operating units in mind, size makes little real difference. A larger plant merely has more of the same basic units than a small plant. There is no good reason why a small plant cannot be as efficient as a large one.

Let's keep this in mind as the following various suggestions for departmental plant layout are explained. Later on these department layouts will be combined to show complete layouts.

Marking Department

This department, often overlooked, is the starting point of plant efficiency.

It is obvious that you cannot get garments cleaned and back to the customer quickly unless they are speedily marked in. Marking room layout is based on an analysis of the usual operations performed by the operator. These are:

1. Secure bundle.
2. Open bundle.
3. Inspect for tears, stains, damageable trim.
4. Remove trim as required.
5. List and price invoice.
6. Prepare and attach tags.
7. Turn pockets.
8. Rough-sort for cleaning.

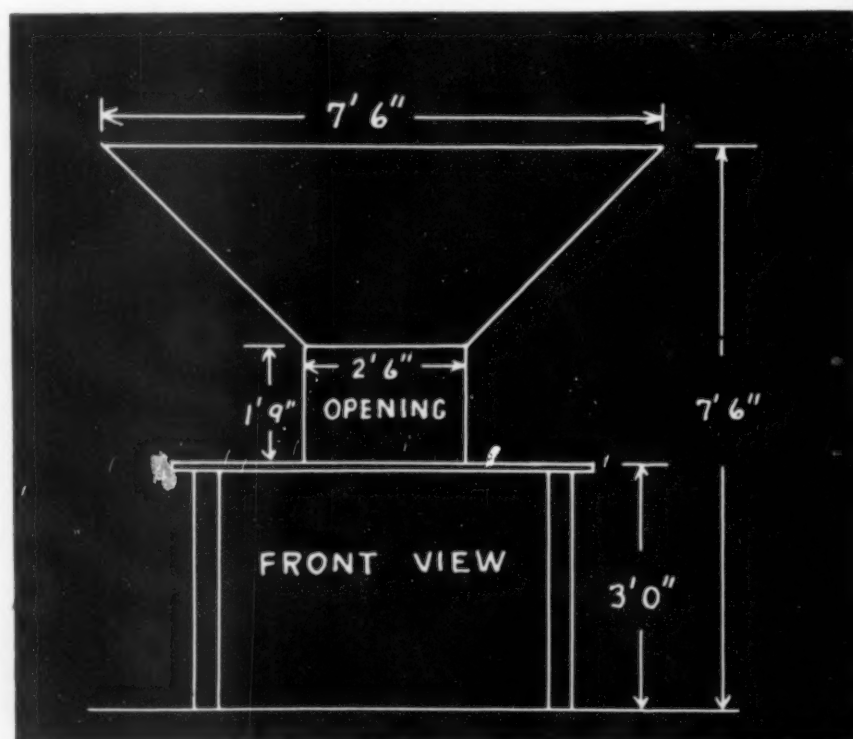
Operations 1 and 8 indicate that the fairly heavy bundle should be within easy reach and so placed that handling will not cause undue fatigue. Rough sorting should be handled

without making the operator leave her work place.

Operations 2 through 7 show the necessity for a table large enough to hold all the items usually received in one customer bundle. They also indicate that a knife or razor blade may be required to open the bundle. Further, there must be room to write up the invoice and to store invoices and tags in proper order.

Of the many marking room devices in use, a marking hopper best meets the requirements of the job operations stated above (Figs. 6A-6B). First of all, when compared with marking out of a hamper, a hopper permits the operator to make fewer and much less fatiguing moves to secure a bundle. Hauling a 2-to-12-pound bundle out of a hamper approximately 180 times a day is not conducive to high per-

Figure 6A



formance or high morale. When a hopper is used, the operator merely pulls the next bundle from the bottom of the hopper across the table to her.

Another big advantage of a hopper is that it saves considerable floor space. It is not unusual to see a marking room or area crowded with hampers of garments awaiting processing. This, of course, is poor use of valuable floor space. In addition it often causes confusion and mixups so that "today's" bundles get marked in before "yesterday's" and then the drivers and clerks go crazy trying to explain to the customers why their garments are not ready on time.

A marking hopper is also very adaptable to good production control, particularly when a good lot system is used. Bundles slide down to the opening at table height in the order in which they are placed in the hopper. Thus, garments can be processed in the same order as they are received from the customers.

In many plants a marking hopper can be used in the following manner: Drivers, as they bring in the work, toss bundles into the hopper or hoppers. Work from the plant store is usually moved by hampers to the marking room a number of times per day. These bundles are placed in the hopper by the drycleaner or some other male employee. This loading

When making a choice between straight-line and unit finishing, many operators make the mistake of basing the choice on relative initial cost. Straight-line finishing requires less piping, simpler piping, and fewer pieces of finishing equipment. At first glance it appears to require less space.

On the other hand, unit finishing offers higher production and better control. Many plants which have converted from straight-line to unit report that the same number of employees can handle a third more volume with unit finishing. Balance the extra cost of piping and equipment against a 20-to-30-percent labor saving. Then make your decision.

can be done at any time without interrupting the marking operation itself.

The marker removes one bundle at a time from the hopper opening. After inspecting, preparing the invoice and tagging each piece, she can rough-sort them into hampers on trucks placed immediately to one side of the hopper table. Invoices and tags are stored right at the marking table itself.

A complete price list may be attached to the front surface of the hopper for ready reference.

If more than one marker is required, an additional hopper will be required. The sketch of a marking hopper (Figs. 6A-6B) shows one design, and can serve as a good guide since hoppers are usually homemade. A number of sizes of wood can be used but there is some advantage to making a hopper from either $\frac{1}{2}$ -inch or $\frac{3}{4}$ -inch plywood held together by weldwood glue, which can be purchased where the plywood is obtained. This makes it possible to build a hopper without nails or screws which protrude and damage garments. The inside surfaces of the hopper can be waxed to help bundles slide down more easily.

Drycleaning Room

The problem of cleaning room layout is considerably complicated by the variation in state and local fire codes. Some states require the cleaning room to be walled off from the rest of the plant, others demand that cleaning be done in a separate building. In still other areas it is necessary that tumbler rooms be separate from cleaning rooms. Further, some cities do not permit petroleum plants within the city limits because they are thought dangerous, and others do not allow synthetic cleaning for the same reason.

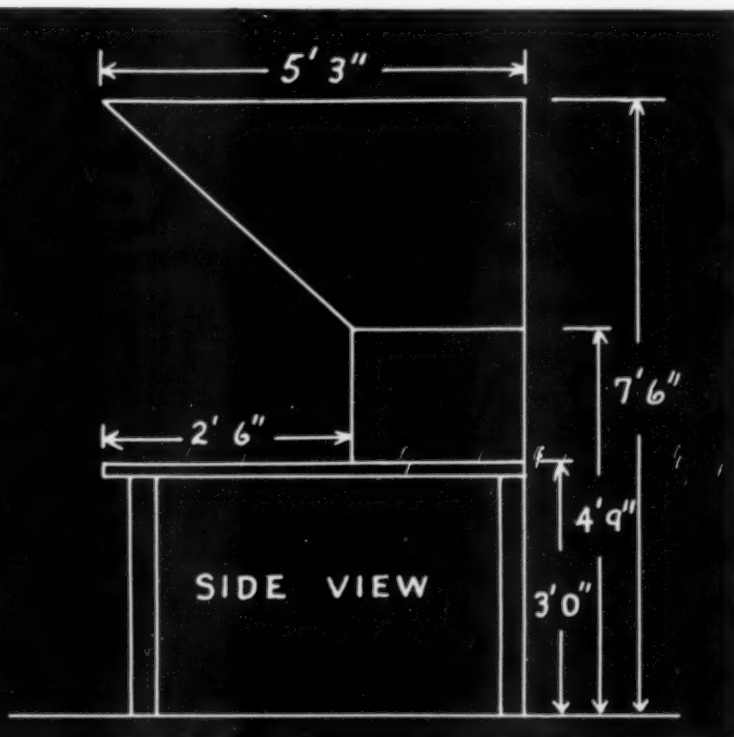
This variation makes it necessary to discuss drycleaning room layout in somewhat general terms, using principles and examples that will apply to a number of situations. Technical problems of piping, filtering and operating a still will not be discussed. Rather, we are interested in the problem of what the cleaner must do to dryclean, extract and dry garments. This implies that although it is desirable to have the filter, for example, close to the washer to permit short pipe runs, this fact should not decide the final layout. It is better to have longer pipe runs if this provides efficient handling of garments.

To provide proper cleaning room equipment it is necessary that:

1. Sufficient cleaning capacity be obtained, and
2. The equipment pieces—washer, extractor, tumbler, in the case of the conventional petroleum setup—be balanced so no delays occur.

A basic formula can be used to determine what can be expected from a specific cleaning machine. Information required is the poundage capacity of the washer and the length of the cleaning cycle. Poundage capacity can be obtained from the manufacturer. You probably determine your own length of cleaning cycle from experi-

Figure 6B



ence or from the recommendations of others.

The formula based on an 8-hour day is as follows:

100 pounds dry weight. A 30-inch extractor has a capacity of only 60 pounds dry weight.

Two 36-by-42 tumblers, each with

to balance, but tumblers must be balanced in the manner already explained.

When synthetic cleaning units are used with reclaiming units they are handled in the same way as washer-extractors. The clean-and-extract cycle set in the machine determines the cycle time. The reclaiming unit is balanced like a tumbler.

For synthetic units using a complete wash-rinse-dry cycle, the formula to determine pounds per hour is simplified to:

$$\text{Poundage capacity of washer} \times \frac{60}{\text{cycle time in minutes}} \times \left[\frac{480}{\text{cycle time in minutes}} - 2 \right] \times .74 = \text{pounds per* hour expected}$$

Let us apply this formula to a standard 36-by-48-inch metal washer with a garment capacity of 85 pounds. Assume a cycle time of 40 minutes per load.

a capacity of 50 pounds dry weight, would be needed to completely balance this production unit. In addition, a drying cabinet for silks should be obtained.

$$85 \times \frac{60}{40} \times \frac{480}{40} - 2 \times .74 = 85 \times 1.50 \times \frac{12 - 2}{12} \times .74$$

$$= 85 \times 1.50 \times \frac{10}{12} \times .74 = 78.5 \text{ pounds per hour}$$

If this 36-by-48-inch metal washer is the larger of two used, proper balance would require the selection of a 40-inch extractor with a capacity of

* In actual operation it is not possible to operate a washer at capacity all the time because certain classifications must be processed without waiting for enough pieces to make up a full load. The formula takes this factor and other variables into consideration.

Fig. 7 charts the capacities of washers, tumblers and extractors for your use.

The formula for pounds per hour expected applies equally well to washer-extractors using the rated capacity of the unit supplied by the manufacturer. There is no extractor

$$\text{Poundage capacity of washer} \times \frac{60}{\text{cycle time in minutes}} \times .74 = \text{pounds per hour expected}$$

The four sketches shown represent good unit layouts for different types of equipment. Notice that in Fig. 8 the extractor is located so that garments can be transferred from the washers by short metal chutes, thus minimizing difficult handling of solvent-laden clothes. The tumblers and drying cabinet are placed across from the washers, as near as the required hamper space will permit.

The slickrail permits hanging as soon as the tumblers are emptied. While this practice requires a little time, it has a number of advantages.

For one, it greatly simplifies production control. It improves inspection

Capacities of Washers, Tumblers and Extractors

Drycleaning Washers

Size-Cylinder Dia. x Length In Inches	Cylinder Speed r.p.m.	Horse- power Required	Capacity Lbs. Dry Weight	
			Wood Cylinder	Metal Cylinder
24 x 24	34	1/2	15	—
24 x 30	34	1/2	20	—
30 x 30	25	1/2	30	40
30 x 40	25	3/4	40	50
30 x 48	25	3/4	50	60
36 x 48	19	1 1/2	65	85
36 x 54	19	1 1/2	75	95
36 x 64	19	1 1/2	90	115
36 x 72	19	2	105	130
42 x 54	16	2	105	130
42 x 64	16	2	130	155
42 x 72	16	2	145	175
42 x 84	16	2	175	200
42 x 96	16	3	200	240
48 x 84	13	3	240	265
48 x 96	13	4	265	305
48 x 108	13	4	305	340
48 x 120	13	5	340	380
54 x 60	13	3	—	250
54 x 70	13	4	—	300

Drycleaning Tumblers

Size-Cylinder Dia. x Length In Inches	Cylinder Speed r.p.m.	Horsepower		Capacity Lbs.-Dry Weight
		Cylinder	Fan	
36 x 18#	39	1/4	1/4	25
36 x 24#	39	1/4	1/4	30
36 x 30#	39	1/2	1/4	40
36 x 30	39	1/2	3/4	40
36 x 42	39	1/2	1	50
36 x 48	39	3/4	1	60
42 x 40	30	1	2	70
42 x 60	30	1 1/2	3	100
42 x 90	30	2	5	150
42 x 120	30	3	7 1/2	200
46 x 120	27	3	7 1/2	250

Drycleaning Extractors

Size Basket Dia. Inches	Basket Speed r.p.m.	Capacity Lbs.-Dry Weight	Size Basket Dia. Inches	Basket Speed r.p.m.	Capacity Lbs.-Dry Weight
17	1500	17	40	925	100
20	1500	25	48	750	150
26	1350	40	60	625	250
30	1200	60	72	550	325

Figure 7

at the spotting board. This is indicated by the fact that spotters are prone to use the steam gun liberally to smooth out wrinkles as well as to spot. Garments with fewer wrinkles obviously speed production in the finishing department.

Fig. 9 shows a good arrangement of a washer-extractor unit with tumblers and drying cabinet.

In Fig. 10 a synthetic unit is coupled with a reclaiming unit.

Fig. 11 shows a complete-cycle synthetic unit.

The Spotting Department

Good spotting-unit layout is based on one principle: "Keep the spotter spotting." Since this work is, in most plants, a skilled job, management should make full use of the skill. This is accomplished in practice by attempting to reduce the amount of garment handling and walking a spotter must do. In other words, provide necessary tools and equipment and arrange it efficiently.

A well-arranged silk spotting layout is shown in Fig. 12. Garments approach the unit in the direction shown by the arrows, are inspected at the hook provided, and are spotted or passed up as decided. Wetcleans can be placed on the hold rack until ready for processing.

If capacity requires two silk spotting stations instead of one, they should be placed parallel to each other and not in line (see Fig. 13). This insures that spotted and unspotted garments are not on the same rail, thereby avoiding mixups and eliminating the continual transfer of garments to different sections of the slickrail. It also assists production control.

Two equally effective wool spotting units are shown in Fig. 14. If more than one wool spotter is needed, unit

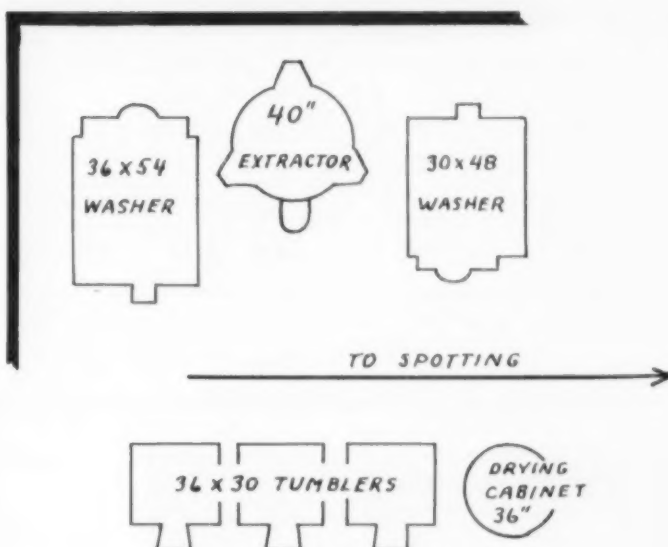


Figure 8

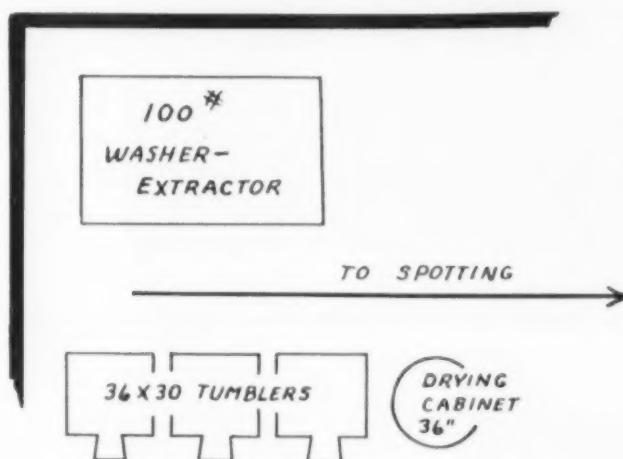


Figure 9

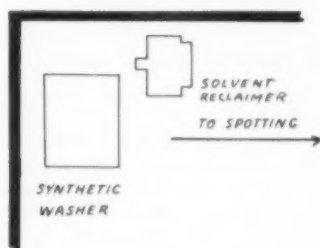


Figure 10

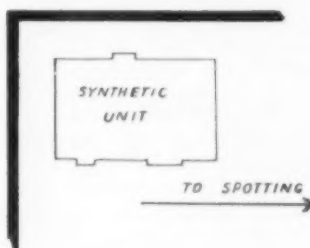


Figure 11

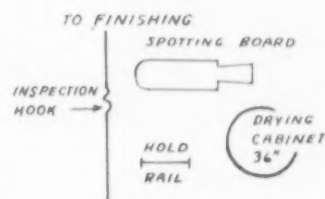


Figure 12

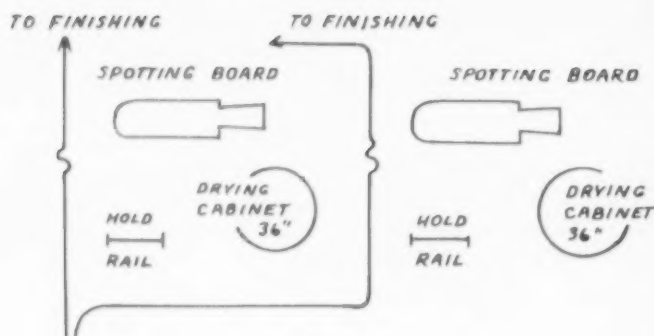


Figure 13

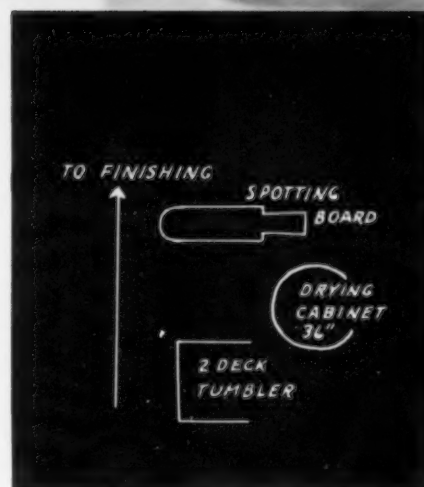


Figure 15

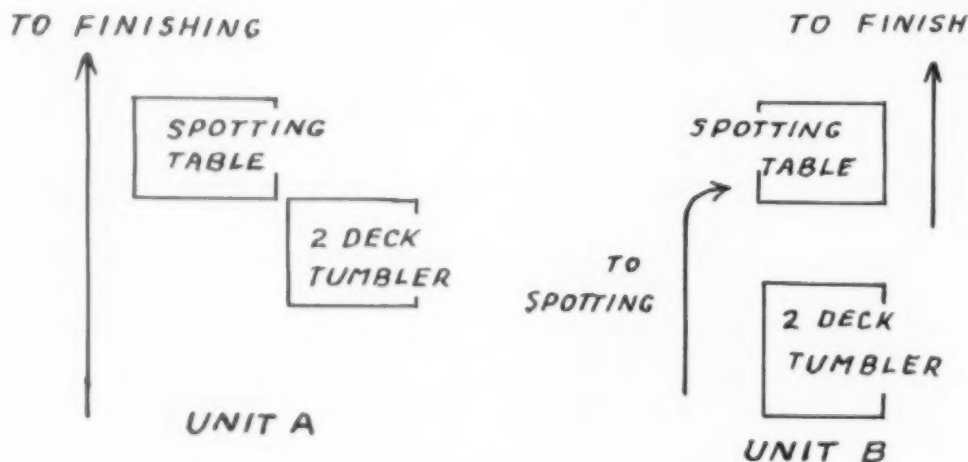


Figure 14

A type should be placed parallel, the same as the silk spotting units. If two of the unit B types are used, the second may be placed between an extension of the same slickrail lines shown, since unspotted garments would automatically be separated from spotted garments.

In a plant where one spotter handles both wool and silk garments, a well-equipped spotting unit would look like the one shown in Fig. 15. The spotter in this plant could indeed spend his time spotting, for all necessary equipment is within arm's reach.

Wetcleaning

The amount of wetcleaning done by any one plant varies seasonally and with the different sections of the country. It also depends upon the efficiency of the drycleaning depart-

ment and detergents used. In any event, it is a costly and time-consuming process. A unit-cost breakdown would undoubtedly show that a company loses money on nearly every wetcleaned garment. This, of course, is a very good reason for keeping wetcleans to a minimum. It is also a good reason for making the wetcleaning unit layout as efficient as possible.

Some garments such as summer trousers can be machine-wetcleaned; others require hand brushing and rinsing. It is therefore actually necessary to have two wetcleaning operation sequences. They are:

- A. Scrub—on wash table
- Rinse—in tubs
- Extract
- Dry—on windwhip
- B. Wash—machine
- Extract
- Dry—on windwhip

Equipment required to perform the operations in each sequence should be placed in the same order. This is accomplished in the wetcleaning unit layout shown in Fig. 16. Rotating clockwise we have the wash table, tubs, extractor and windwhip; counter-clockwise the 20-pound washer, extractor and windwhip.

The Finishing Department

There are good reasons for use of the following four finishing units. There are many possible combinations of finishing equipment, to be sure, but these are recommended because each unit has been subjected to methods analysis and has been tested by successful application.

The units were developed on the basis of four considerations:

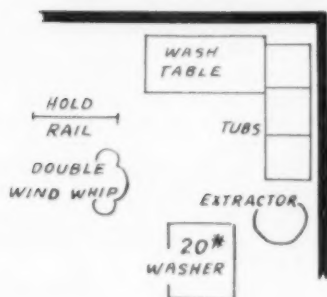


Figure 16

Advantages of Long-Coat Unit

1. The double seams are not shined as the steam finisher completes those areas.
2. The operator is not idle while drying takes place on the finisher.
3. The garment has ample time to dry and set on the finisher.
4. A crisp finish is obtained on lapel and sleeves as the press is used for those areas.
5. One operator is responsible for the entire finishing of the garment.
6. Unit cost is lowered as production is increased.

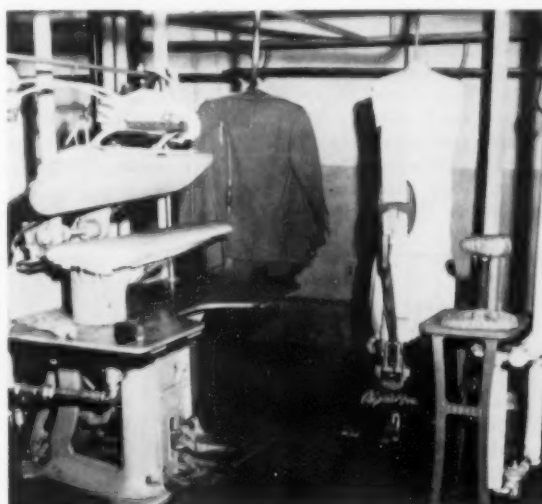
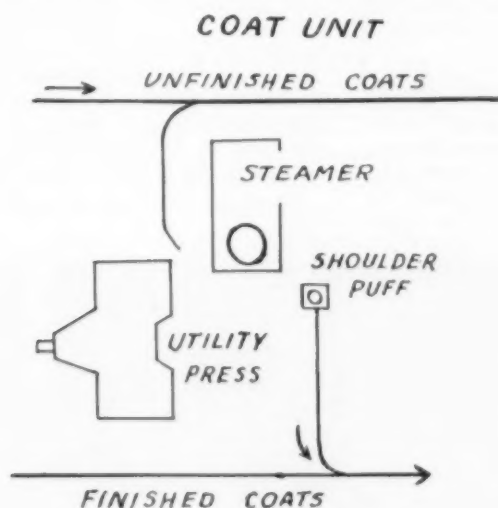


Figure 17

1. Handling of garments is "through the unit."
2. Lot control is organized and simplified.
3. Inspection is quick and requires little handling.
4. Each unit is efficient, method-wise, for the largest percentage of garments handled.

This last consideration is extremely important. As you examine the units and their use you will probably say, "What do I do when such and such a specialty item comes along?" or "Why don't we put 'X' piece of equipment into the unit?"

These questions are valid and are answered this way: If you try to specifically plan for each specialty item, or add a piece of equipment which will have only occasional use, you will destroy the basic efficiency of the unit.

In other words, the units are designed to effectively handle 90 percent plus of all items. Altering the units for 10 percent of all items will considerably lower their value. The use of this principle has saved many plantowners thousands of dollars in productive labor costs.

The first unit (see Fig. 17) is a coat unit. It is composed of three pieces of equipment: a utility press, tall coat steamer, and shoulder puff iron. Through this unit pass long coats (men's and women's), suit coats, ladies' jackets, and all miscellaneous coats and jackets.

While all of these items have or can have different finishing requirements, they also have many basic similarities. This means that a standard general method can be established for all of these items, and that this method will differ only in detail for different items

and according to the needs of each individual garment.

If you put all coats through this unit and follow the general method explained below you should expect to get 30 to 40 coats per hour depending upon quality desired.

The operator should keep two garments in process simultaneously by the following procedure:

1. A coat which has been steamed and dried on the steam finisher is removed by the operator, who makes a quarter-turn to the left, places it on the press for the initial touch-up lay. (The lay should not be completed until the third step.)
2. The operator takes an unfinished coat from the incoming express rail as he makes a right quarter-turn. The coat is placed on the finisher, steamed

and brushed as necessary, and the air turned on for drying.

3. While this coat is drying the operator makes a left quarter-turn to the press and touches up the coat left there previously. (This includes lapels, sleeve creasing or pressing unfinished areas.)

4. The operator takes this touched-up garment, makes a right half-turn and finishes the shoulders as required on the shoulder puff, places the garment on a hanger and hangs on the outgoing slickrail.

5. The operator makes a left quarter-turn and repeats the procedure.

The second wool finishing unit is the trouser unit. Except in large volume plants, it is also the unit through which household items are passed. It, too, is composed of three pieces of equipment: mushroom press, utility press and shoulder puff iron (Fig. 18). This unit handles primarily trousers, vests, shirts and skirts, as

2. With the left hand holding the waistband and the right hand under both legs, the finisher removes the trousers from the mushroom press, makes a quarter-turn to the right, lays the legs of the trousers on the buck of the utility press. The legs are then finished.

3. A hanger is then placed on the trousers while they are still on the buck of the press and the operator picks up the hanger with trousers in the left hand, makes a quarter-turn left, and as the left hand hangs the trousers on the outgoing rail the right hand picks up another pair of trousers for finishing on the mushroom press.

4. Leave-off marks are puffed out by the shoulder puff as required prior to hanging.

Fig. 19 shows a complete single-operator silk finishing unit. It is composed of a bag-type steam-air sleever, a table holding sleeve, heart and

mushroom puff irons, an offset hot-head press and a touch-up ironing board. A touch-up sleeve board swings on an adjustable arm. In addition, water spray guns should be hung by springs between the bag sleever and the puff irons as well as over the hot-head press.

This unit can process all dresses, including wetcleans, as well as almost all garments made of rayon or cotton fabrics such as raincoats, shirts, blouses and jackets.

You should expect production of between 9 and 15 dresses per hour, including plain, fancy and wetcleaned dresses. Each garment should be completely finished before starting another.

1. The operator takes a garment from the incoming feed rail and finishes the sleeves. The cut of the sleeves and the type of fabric will dictate the finishing procedure. A large percentage of the sleeves can be processed on the bag sleever. Approximately 30 percent of the sleeves

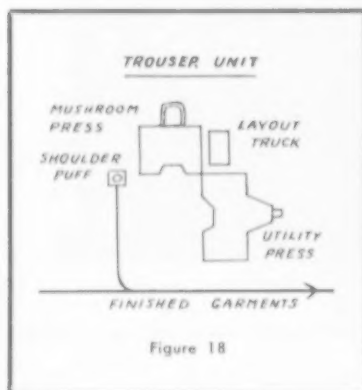


Figure 18

well as household items when required.

Trouser production will range between 20 and 40 pairs per hour depending upon fabric and quality desired. If trousers are hung, they enter the unit on a rail which terminates at the angle formed by the two presses. If not hung, the spotter can place the trousers on a rolling stand which holds the trousers at waist level with the open fly up and facing the operator.

The operator should completely finish each pair of trousers with one handling by using the following procedure.

1. The finisher picks up the top pair of trousers on the stand with his right hand and lifts it to the buck of the mushroom press. The trouser top is then finished.

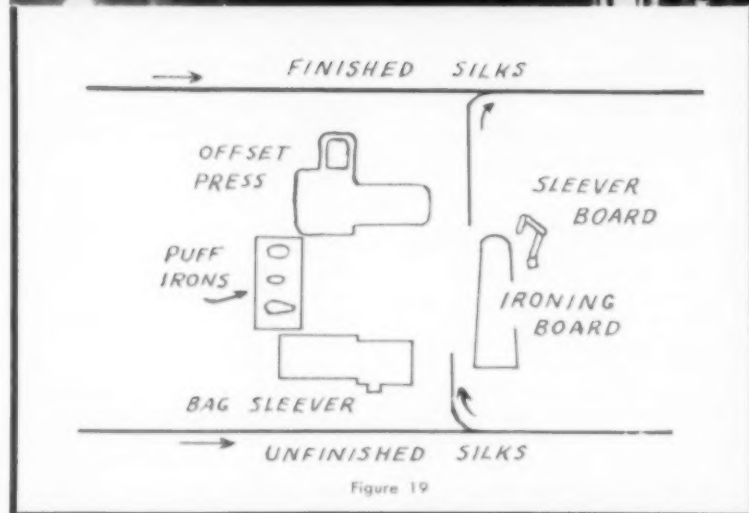
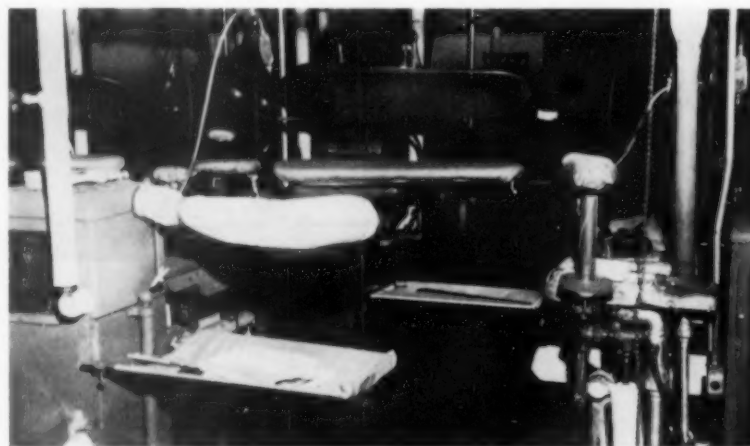


Figure 19

Advantages of Complete Silk Units

1. Each operator has sufficient machinery to complete her work. Thus, no time is lost waiting for another employee to finish using a machine.
2. The machines are arranged so that each step of finishing can be progressively completed without turning back or walking.
3. One person is responsible for the quality of finishing.
4. Production is not decreased by one operator adjusting his or her speed to that of a slower operator.

will require finishing on a sleeve board with a steam iron.

2. The bodice down to the waist should then be finished on the mushroom puff or by the steam iron, again depending on material and construction.

The skirt area from the waistline down 6 to 8 inches should also be finished by the same method used for finishing the bodice.

3. The dresses should be placed on a hanger and the skirt should be pressed on the offset press unless it is ruffled or contains fine pleating. Ruffles or fine pleats must be finished with the steam iron.

4. Necessary touch-ups can be completed by the steam iron and the finished dress should be placed on the outgoing express rail.

The fourth unit (Fig. 20), also for silk finishing, shows how a bag sleeve,

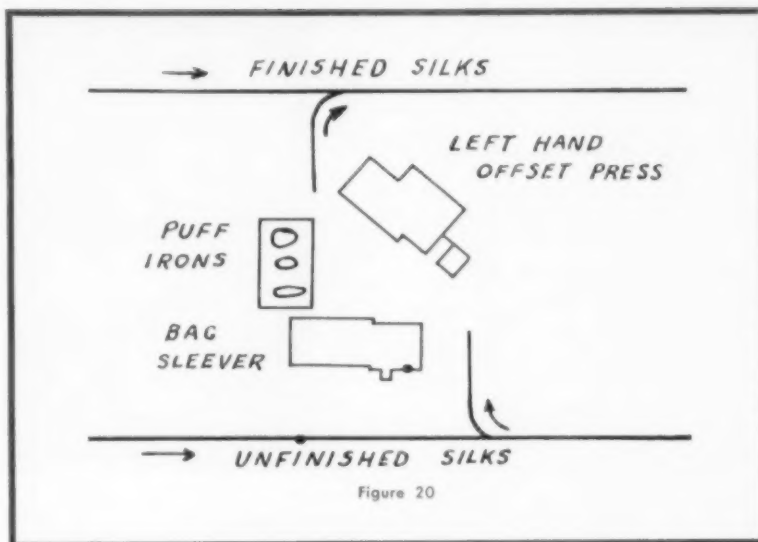


Figure 20

puff irons and left-hand offset press (glider type), or bag sleeve, puff irons, and steam finishing board can be arranged. We happen to prefer the silk unit shown in Fig. 19 because of the superior quality made possible through use of a hothead offset press, the head of which can be locked down as required. However, the left-hand offset press and steam finishing board are used frequently.

It should be noted at this point that all of the finishing units are placed between slickrails 11 feet apart. Allowing one foot on the outside of each rail for hanging space, it is apparent that these units can be placed in a building or part of a building a little over 13 feet wide. The widths of even some of the smaller plants in shopping centers vary between 15

and 20 feet so these finishing units may be adapted to all but the most cramped locations.

Inspection

Final inspection should be done at each individual finishing station. This includes inspection for spots, finish and sewing. When this "roving" inspection is practiced instead of "central" inspection at a specific point, you will find that it reduces the total time required to get garments through the plant by one to two hours.

Notice any plant where inspection is done at a central point. Dozens of finished and hanging garments form an undesirable bottleneck in front of the inspector. Rejects and respots have to be carried some distance back

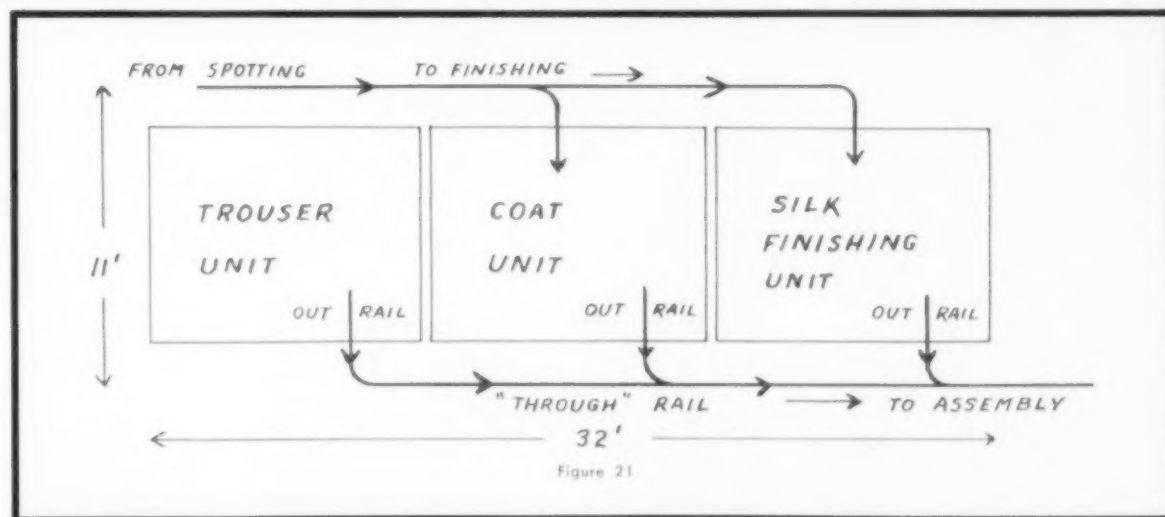


Figure 21

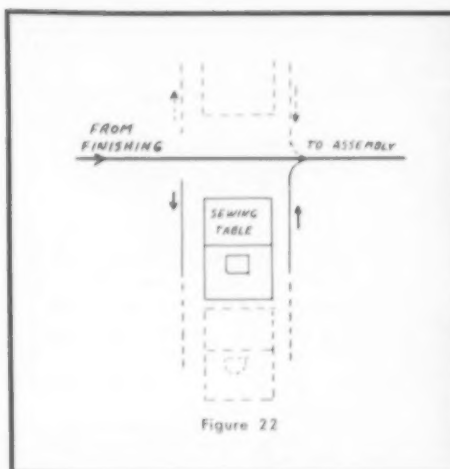


Figure 22



to the finishers and spotter. It is also usually necessary for the finishers to identify which garments they have finished by putting a tag on the hanger or initialing a hanger guard. This wastes the finisher's time.

With roving inspection, the inspector examines each garment on the out rail of each finishing unit. Fig. 21 shows schematically how rails lead from individual finishing units to a through rail which goes to the assembly area. If the work is satisfactory, the inspector moves it out to the through rail. Any finishing reject is immediately handed back to the finisher. This requires no long walking and the finisher need not identify which garments he or she processed. Responsibility is quickly and easily placed on the finisher.

When required for incentive payment, a piece count for each finisher of those garments passing inspection is made at the work station. This count can be recorded on a production form attached to a clipboard which hangs on the out rail of the finishing unit.

During inspection, spotting rejects are separated and immediately returned to the spotter for reprocessing. Garments requiring free repairs are separated and moved immediately ahead to the sewing department so that repairs can be completed when a lot is ready to be checked out. A clip tag can be attached to the garment by the inspector on the place requiring sewing.

Free Repairs

Proper location of the sewing department is often debatable. Some state that sewing should be done before finishing, others immediately after finishing. Although there are advantages in both locations, we feel that

sewing after finishing is most desirable. It is true that some items—dresses, for example—are often repaired before they are finished. At times garments will require some touch-up after being repaired.

However, there are two important reasons for sewing after finishing. One is that sewers should not select the garments to be repaired. This practice, usually followed in pre-sewing, puts the sewers in the position of deciding how much repairing is to be done. As a result they are just as "busy" in slack seasons as they are in peak seasons. Selection of garments to be sewed should be done by someone else. This is most easily accomplished by having the inspector make the selection at the same time she is inspecting for spots and finish.

The second reason is that it is poor and costly practice to have a "pre-sewing" department and an "after-sewing" department. There simply is

not enough work to keep the sewers busy, in most cases. In other words, a plant having one person sewing before finishing and two after finishing would find that two sewers doing the work after finishing could handle the volume. This change could result in a labor saving of between \$2,000 and \$3,000 per year.

Fig. 22 shows a sewing unit located along the line of the slickrail leading from finishing to assembly. The dotted-line portions show how additional units would be placed, depending upon the number of sewers required. Each sewing unit consists of tables approximately 30 by 40 inches with drawers for buttons and racks for thread.

The operator sits on a swivel chair placed on a 20-inch-high platform which also supports the table. In a sitting position the sewer's shoulders are nearly as high as the regular slickrails located at each side of the work

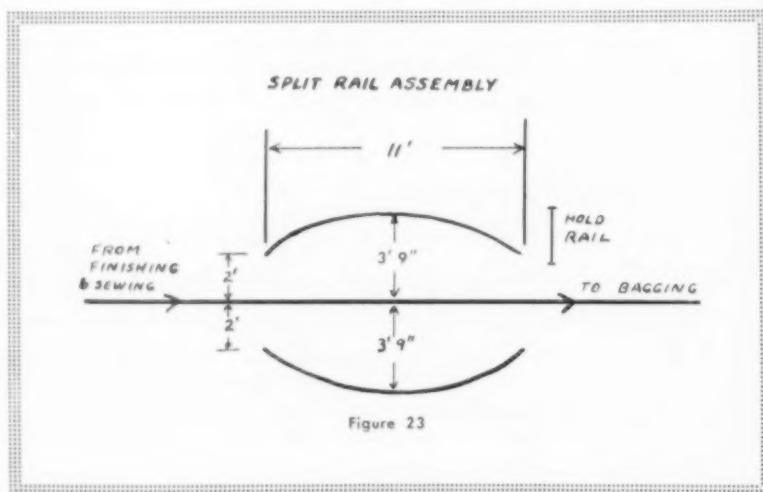


Figure 23

station. Without getting up she can reach with one hand and lift a garment to be repaired off one rail. When sewing is complete she places the garment on the other slickrail.

This arrangement saves the considerable amount of time spent by sewers getting up, walking to a rail for a garment, returning to a sewing station and sitting down. It is also far less fatiguing.

The inspector places garments requiring repair on one rail to the sewers and checks and transfers back to the through rail garments which have been repaired.

Assembly

Assembly and checkout are often one of the most inefficient sections of a drycleaning plant. There are two possible reasons. One is that because lower hourly wages are paid to employees doing this work, most plant managers do not take time to analyze the way it is done. The other is that too often there is no recognition of the fact that excessive unproductive walking occurs in most assembly operations.

Probably the most important improvement in assembly methods in the last few years has been the development of "split-rail assembly."

A split-rail assembly system is composed of two curved rails on either side of a straight center rail which leads from inspection to bagging (Fig. 23). The general appearance is one of an oval split in two lengthwise, and spread apart 4 feet with a straight rail running through the opening. Such a system enables the assembler to work within a modified circle shaped so that 12 feet of assembly space can be reached by an arm movement.

Advantages of Split-Rail Assembly

1. Walking is eliminated.
2. The time spent spinning assembly wheels is eliminated.
3. Single pieces can be directed along to bagging without lifting from the center rail.
4. If assembled orders are kept numerically they can be passed along to bagging or storage without lifting or losing numerical sequence. (The curved rails must be extended to the center rail on the outgoing side.)

Because of these advantages, assembly speeds of 100 to 120 pieces per hour are possible.

Each curved rail should be divided into a number of equal segments and provision should be made for attaching invoices above each segment. Some form of friction clips should be installed so that invoices can be both hung and removed easily.

The garments slide into the assembly area on the center rail almost to the middle of the split-rail area. The assembler, who is standing in the center, looks at the tag number on each garment and places the garment in the segment under the matching invoice. Single-piece orders need not be lifted from the center rail but can be passed along to bagging after invoices are attached. Thirty to 40 percent of incoming bundles are single-piece orders.

This assembly works exceedingly well with a 50- or 100-bundle lot system, since each side of the split rail can be divided into 50 spaces to hold 50 orders. After one lot is hung the pieces in the order are checked against the invoice. Then the invoice is slipped over the hanger and the order sent down the center rail to the bagger. Combiner clips are useful in keeping multiple-piece orders together.

Bagging

Bagging and storage tie in directly and will be explained as one operation. First of all, it is necessary to allow enough rail storage length between assembly and bagging to hold at least one lot of garments. This is

necessary because the assembler checks out and sends to bagging one complete lot at a time.

The bagger selects the correct number of bags for each order. A garment is placed on the bagging hook and the bag, suspended overhead, is pulled down over the garment. Then the invoice is attached to the bag which is placed on the correct rack. This dispersion of garments on individual racks by the bagger can save a lot of rehandling.

In Fig. 24 you see a bagging layout which feeds storage rails for Branches A and B and Routes 1, 2, 3 and 4.

The rails at the point of conversion near the bagger are elevated and then slope away from the bagger to regular height. Thus garments tend to slide by gravity away from the bagger and down the rail to storage.

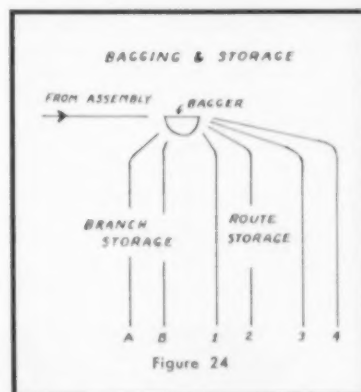
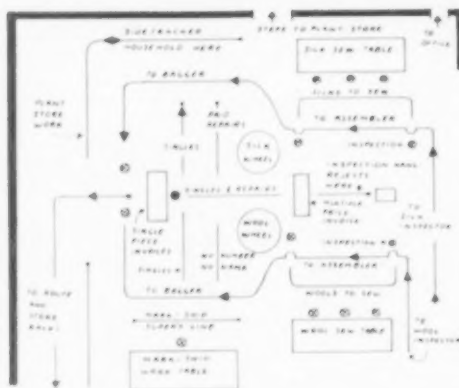
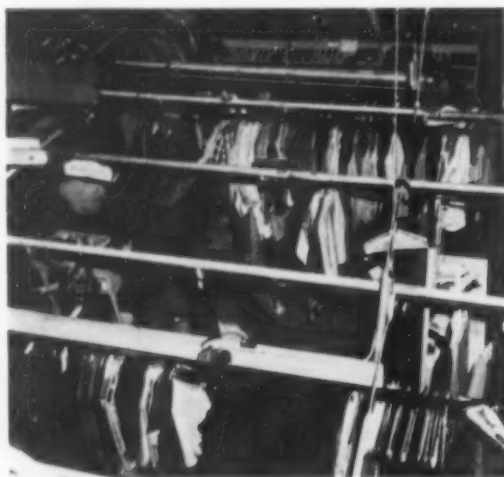


Figure 24



SORTING ASSEMBLED GARMENTS for stores and routes is most easily handled from raised platform. Gravity carries garments away from sorter



◀FIVE RAILS in this section of assembly area are, from foreground: silk sewing, silks, rejects, wool sewing. Table at right center holds multiple-piece invoices

Here's a compact assembly setup that admirably meets the needs of a large plant in Pennsylvania. A volume of \$10,000 weekly (base price \$1.45) flows through it with these employees: one tally clerk who maintains work schedules and checks finishers' production; two inspectors; two multiple-garment assemblers; one single-garment assembler; 1½ baggers.

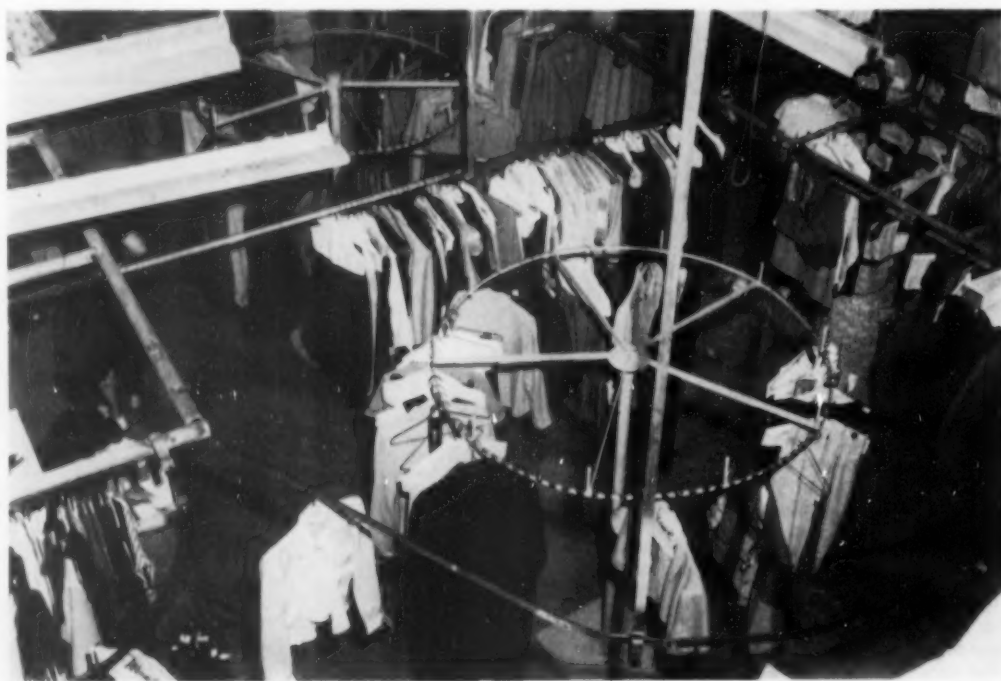
Setup was designed to mesh with

plant's day-lot system and block-out, two-garment invoice. Work comes in on two lines—silk and wool. The inspectors, one stationed at each line, check quality and shunt work off to silk or wool minor repair sections. Work passes down to the two assembly wheels where pieces of individual garments are assembled; i.e., the pants and jacket of a man's suit, a belt and dress, etc. Single-piece orders are here switched to a center rail where they pass straight

to the single-garment assembler who immediately bags and ships them. If the singles pile up too fast for her, she has two side rails for temporary storage.

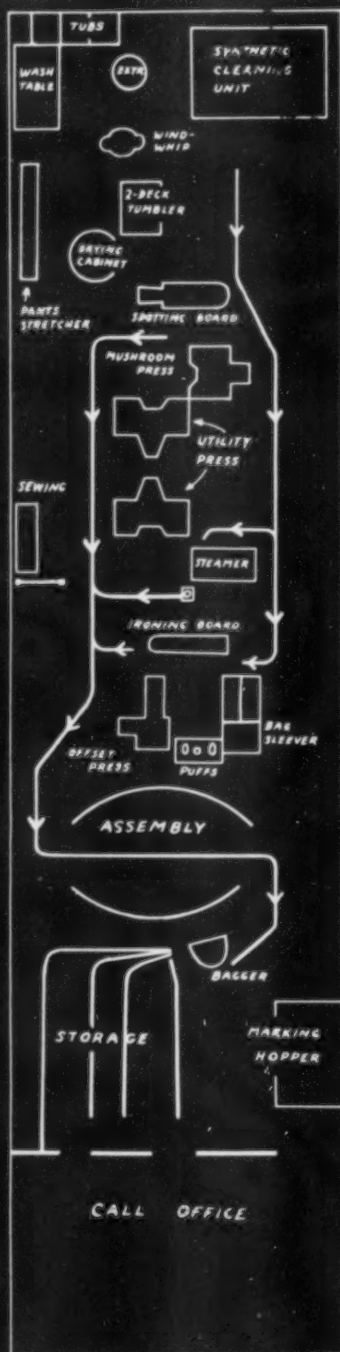
After multiple-piece garments are assembled on wheels, they also pass on down to bagging stations and on to route and store lines.

Routemen and store personnel handle their own assembly of orders. There are 14 outlets in all.



REST OF assembly section shows two sorting wheels, with single-piece orders on line at center. Various hold-rails, bagging stations and single-piece invoice table are at upper right

How To Tie The Units Together



AN IMPORTANT TEST of a layout is, "Does it eliminate backtracking?" It is not always possible to get rid of all backtracking, but it should be possible to keep the work moving forward most of the time. Backtracking not only requires unproductive walking around but is often the source of production bottlenecks. It increases labor costs, slows service and makes it more difficult to maintain production control.

The rule, then, is to keep the work moving forward at all times. This forward movement doesn't have to be a straight line, although this is considered ideal, but it should be an orderly progression.

Once you know how many production units and work stations you will require for the volume you have in mind, fitting the units together is not too difficult. The shape of your building, naturally, will be the biggest factor.

Fig. 25 shows a small synthetic plant layout designed to fit into a space 80 feet deep and 20 feet wide. This long, narrow space is commonly found in many city and suburban shopping center locations. At prices of \$1 for a suit or plain dress, this plant can easily handle \$1,300 weekly with six productive employees.

Work is brought in to the call office, marked, and carried in baskets to the cleaning unit at the rear. From this point it moves straight to the storage racks at the front. The principles of through-the-unit finishing are carried out in the trouser, coat and silk units, and everyone has plenty of room.

Fig. 26 shows a larger setup for a nearly square petroleum plant measuring 62 by 65 feet. This plant could easily handle a volume of \$3,500 to \$4,000 at \$1 base price with approximately 18 productive employees.

The slickrail leading to the wool

units does not extend to the two trouser units as it is assumed that trousers would be brought to the units on layout trucks. If trousers were to be hung at spotting, the rail and feed lines could be easily extended.

Note that the basic units in the larger plant are the same as those of

Planning for Expansion

How much of a factor to allow for plant expansion depends to a large extent upon individual circumstances. You know better than anyone else what your prospects are for increased volume. A long-established plant in a stable community will probably be more concerned with improving the efficiency of existing capacity than with expansion. New plants, or plants in fast-growing areas, will want to figure on a sizable volume increase during the next five years.

The smart way to plan for anticipated rapid growth is to provide space in the layout for a volume of, say, 25 percent greater than present volume. For example, if your present volume is \$2,000, leave room in the layout for \$2,500. The extra \$500 will probably require one more finishing unit. Even though the unit itself may not be needed for a year or two, the steam header, air and vacuum lines should be extended to the unit location and capped. When the unit is needed, installing it will be a matter of minutes.

It is far better to have too much cleaning room capacity rather than too little. Extra cleaning capacity not only takes expansion into consideration, but enables the dry-cleaner to finish his day's work that much more quickly, freeing him for other duties.

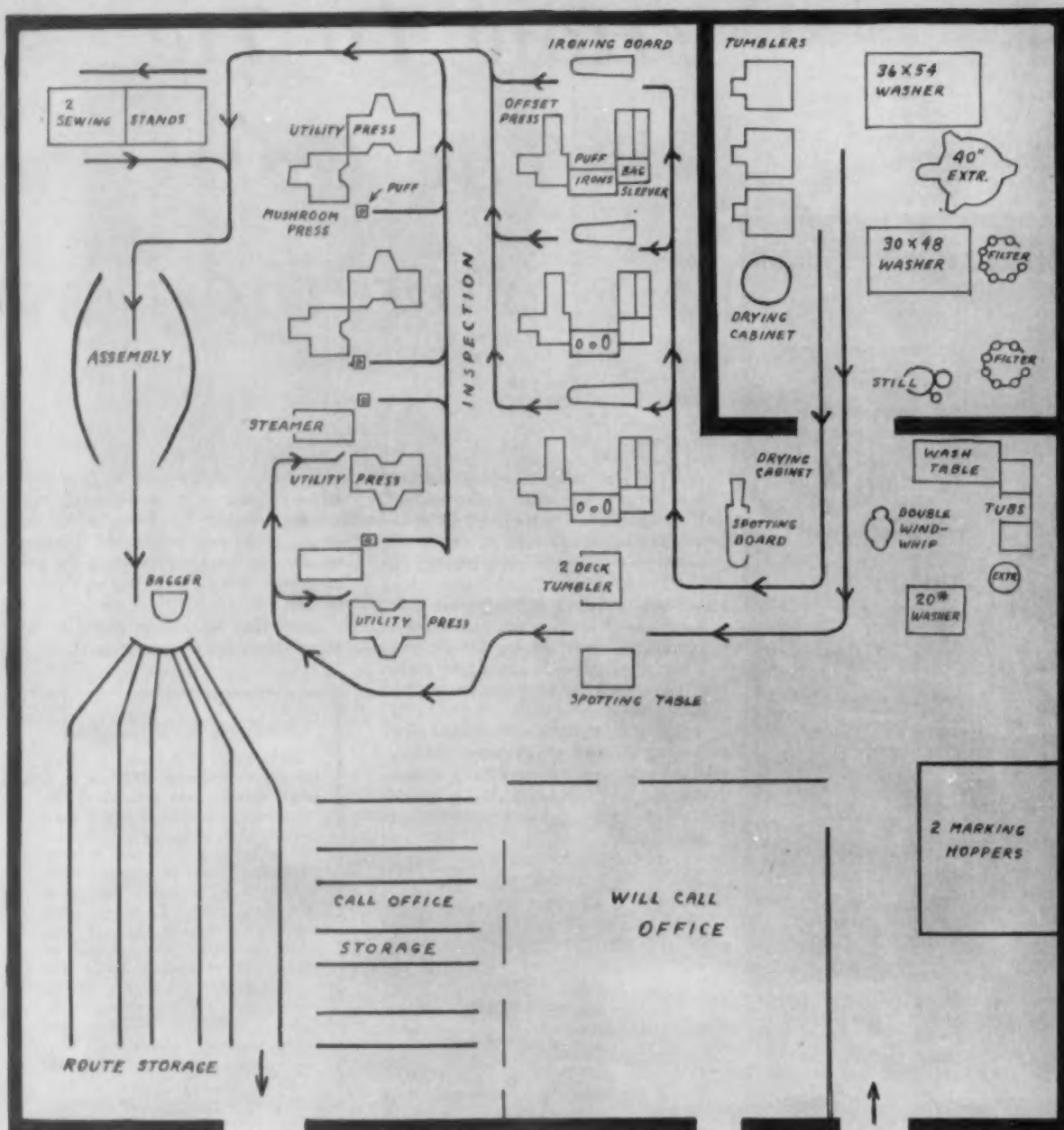


Fig. 26

the smaller one, and that in each case there is a definite, uninterrupted flow of garments through the plant.

Multifloor Operation

Every drycleaning plant layout where operations must be on different floors poses its own individual problems. While almost everyone agrees that a one-floor layout is best, there are many plants which would find it economically inadvisable to build an

entirely new plant or move to a different location. This is particularly true when a relatively small amount of space is needed for expansion.

Some plants have found that a mezzanine or half-floor saves considerable floor space by providing area for supply storage, incoming garment storage and marking, as well as office space. This arrangement usually requires an elevator or conveyor to bring garments up from the main floor. It also means that drop chutes to the

cleaning room for marked-in garments should be provided.

Another use of a half-floor, assuming that all regular floor space is required for expanded volume, is for special or extra services. For example, equipment and space for such operations as hats, gloves and leathers, paid repairs and even household furnishings in some cases can be placed on a second floor. This may leave room for an efficient garment production setup on the first floor.

When production facilities have to be more evenly divided between two floors, here is another combination. Place marking, drycleaning, assembly, bagging and storage on the first floor. This leaves spotting and wetcleaning, finishing, sewing and inspection on the second floor. Such a division provides as good means as possible for material handling. Incoming work is handled through marking and drycleaning in the usual manner. Then garments can be moved in hampers to

the second floor on an elevator. Four to six hampers on one elevator lift would transport quite a few pieces.

It is on the second floor, from spotting through inspection, that most individual piece handling is done. Spotting and finishing rejects can be returned and reprocessed in the conventional way. Only reruns will have to be sent down to the first floor again.

After inspection, a garment is usually considered completely processed. A rail between floors or an

elevator can take garments down to the assembly area where they are checked out and stored in the usual manner.

Basements, of course, come in very handy for storage of supplies and power plant, compressors, vacuum, etc. An increasing number of plants are finding that cleaning room layout can be streamlined by placing the filters, still, solvent storage tanks and pumps in the basement, while the washers and extractor remain upstairs.

CONVEYORS

In drycleaning plants garments are moved from one place to another by four methods: by hand, by truck or basket, by slickrail and by conveyor. For our purpose here we are classifying elevators with conveyors.

A dismaying number of plants have never got beyond the truck or basket level. The more progressive plants are finding that it is smart practice to hang all garments (with the possible exception of unfinished trousers) as soon as they are cleaned. We know of one plant where the garments even come into the plant from the trucks on hangers or banana hooks.

Conveyors, especially for the larger plants, offer the most efficient means of transporting garments, and it seems very likely that the industry will become much more conveyORIZED than it is within the next few years. Drycleaners have lagged behind the laundries in this regard.

There are three basic types of conveyors used in drycleaning plants:

belt, worm and link. Within these categories the variations are endless. Each conveyor, like almost everything else connected with plant layout, is more or less of an individual problem. The type of conveyor and what you pay for it depends almost entirely on your particular needs and your own ingenuity. Many of the conveyors which have been reported on in this magazine are homemade affairs.

The following pictures and text show how a number of mechanically minded drycleaners have put conveyors to work.

Flat Belt

Flat belt conveyor used at Sparkle Cleaners of Quincy, Massachusetts, carries garments from store identification section to prespotting at opposite end of the plant. Most often used on flat planes, the belt conveyor can be inclined to carry work to upper levels. The degree of incline can be increased by setting cleats across the belt in

such a manner as to prevent backslipping. This particular belt parallels a row of front windows, carries advertising.

Worm

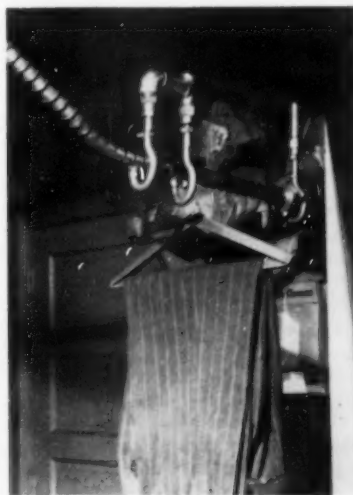
Worm conveyor operates on screw principle to move garments along a threaded rail. Closeup of the rail at White Way Cleaners in Minneapolis shows how worm is belt-driven, at extreme right, and how rail is supported to carry garments aloft.

Another view of worm conveyor is this shot (below) from Cambridge (Maryland) Cleaners. The flat bar on the side of the conveyor has a handle, at left, for raising and lowering. As the garments are spotted they are hung on this bar. When enough have been gathered, the conveyor is started and the bar lowered so hangers make contact with the thread and move away.

The type of conveyor used at Cambridge—open circuit, each section of



FLAT BELT at Sparkle



WORM CONVEYOR at White Way



"CLUTCH" starts garments moving

Boiler Horsepower Requirements

When you add steam-using equipment, make sure that your steam-generating capacity is adequate to handle the increased load. The following table, prepared by the engineering department of the National Institute of Drycleaning, shows steam consumption of the commonly used pieces of drycleaning equipment. One boiler horsepower equals the evaporation of 34.5 pounds of water per hour when feedwater temperature is 212°F and absolute pressure is 14.7 pounds per square inch.

Vacuum Still

35 g.p.h.	2.0 b.hp.
50 g.p.h.	2.0 b.hp.
75 g.p.h.	2.6 b.hp.
125 g.p.h.	5.4 b.hp.
200 g.p.h.	8.6 b.hp.
425 g.p.h.	13.0 b.hp.
600 g.p.h.	25.8 b.hp.

Tumblers

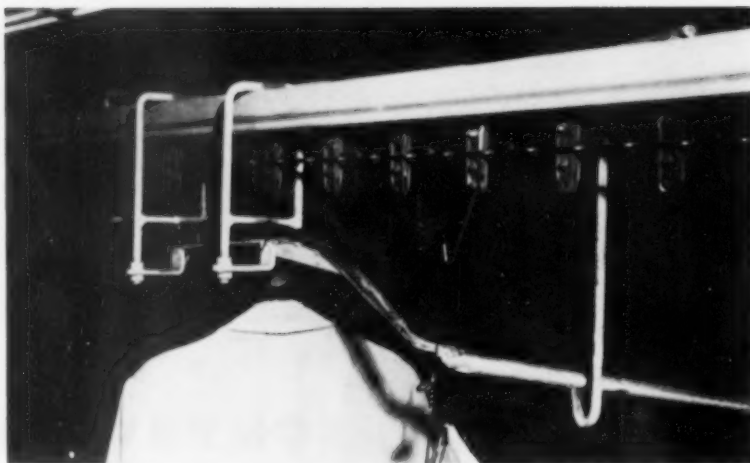
36 x 30 open-end	3 b.hp.
30 x 40	4 b.hp.
44 x 42 cylinder	5.5 b.hp.
42 x 42 open-end	7.5 b.hp.

Presses

Utility (air vacuum)	1 b.hp.
Utility (steam vacuum) ..	1½ b.hp.
Mushroom—sleeve and shoulder—(air vacuum) ..	¾ b.hp.
Mushroom—sleeve and shoulder (steam vacuum)	1¼ b.hp.
legger (air vacuum)	1¼ b.hp.
legger (steam vacuum) ..	1¾ b.hp.

Miscellaneous Equipment

Steam spotting board ..	1 b.hp.
Steam vacuum board ...	2 b.hp.
Pants stretcher	1 b.hp.
Single windwhip	1 b.hp.
Double windwhip	2 b.hp.
Single puff iron	⅓ b.hp.
Set of 4 puff irons	½ b.hp.
Steam electric iron	⅓ b.hp.
Hot blocking machine ...	1½ b.hp.
Wool spotting table	1 b.hp.
Bag sleever	1½ b.hp.
Steam-air finisher	2 b.hp.
Necktie press	¼ b.hp.
Drying cabinet 38" round.	1 b.hp.
Drying Cabinet 3' x 5' x 5'	3 b.hp.
Repellent tank	⅓ b.hp.



LINK CHAIN at Pilgrim

conveyor powered by an individual fractional hp. motor—has a practical maximum length of 150 feet. Supports are needed every 5 feet to hold 15 pounds per square foot. Lighter loads would require fewer supports at greater intervals and heavier loads the opposite.

Hung from the ceiling as simply as any slickrail, the conveyor presents no particular installation problems. Rises to gain height for gravity slickrails, curves and bends were easily made. Light and extremely flexible, the worm-type conveyor selected permits turns up to 90 degrees. Counting supports, power units and miscellaneous items, this conveyor system cost Cambridge Cleaners less than \$8 per foot to install and put to use.

Link or Chain

Link conveyor at Pilgrim Laundry in Detroit travels a 420-foot route from the sales counter in the call office up through an over-the-road bridge, down into the cleaning plant and back to the call office. It is a constantly moving, continuous link chain supported at 6-inch intervals by vertical members which are suspended from two wheels. The wheels run along an enclosed channel which is open only on the bottom and is shaped like an inverted "U" with the bottom edges flanged inward to support the wheels. Track or channel sections are welded together and supported from the ceiling by half-inch rod stock.

Hooks are centered on every fourth vertical support for the chain and the entire chain travels at the rate of approximately 6½ feet per minute.

Photo above shows dump mechanism which switches garments from chain conveyor to slickrail which carries garments to final inspection and bagging.

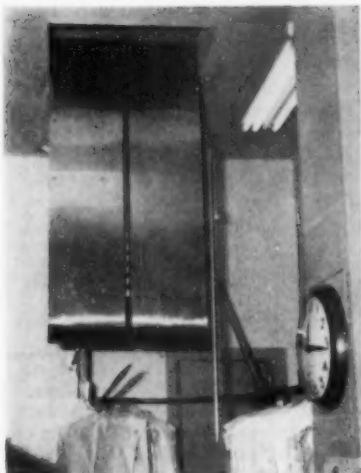
The entire conveyor is driven by a fractional hp., constant-speed motor. A V-belt from the motor runs to a reduction gear which drives a vertical shaft which turns the single-drive wheel. The drive wheel has sprockets which engage the links of the chain. Similar wheels with sprockets engage the chain links and guide the conveyor at each point where it makes a turn in either the horizontal or vertical plane. These additional wheels do not, of course, act as drive wheels. Both V-belt pulleys (the one at the motor and the one at the reduction gear) are spring loaded. By adjusting the tension on the pulley sheaves the speed of the conveyor can be changed.

The Pilgrim chain is subjected to a drip-type oiler, which constantly lubricates the chain so that it doesn't get noisy. And it is also provided with "take-up" sections of conveyor track. This was deemed necessary when it was noted that a particularly long chain in its travels from one location to another passed through different temperatures, which caused it to expand and contract.

Vertical Chain

Another example of the chain-type conveyor is this one used at Journal Square Terminal Cleaners, Jersey City, which carries soiled garments from the call office directly to the cleaning room above. As garments are turned in they are put in duffel bags and sent up. The finished garments are bagged and sent down when called for because of the limited space of the call office. Blower set near well in floor keeps bags from billowing in updraft which could cause garments to fall from conveyor.

Hooks project through a slot in the wide metal shield which projects the garments.



LINK BELT at Journal Square

Gravity

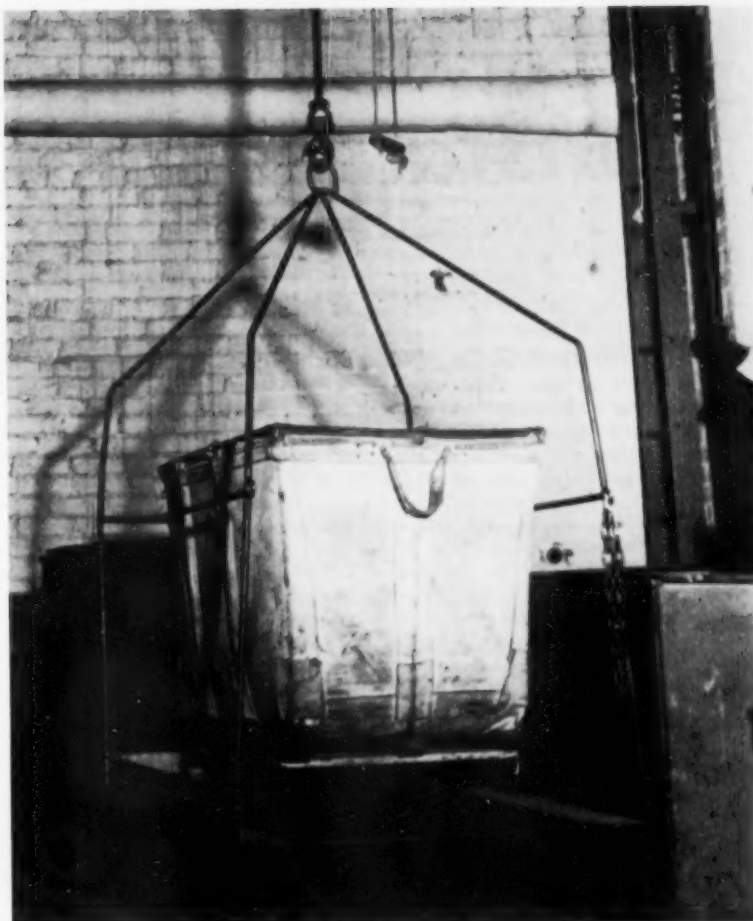
Gravity conveyor rails are useful in transporting garments from higher to lower levels. Care should be taken that the descent angle is not too steep, for the garments hung on hangers have a tendency to jump the rail. One way to check this condition is to vary the angle of the rail. You may start out the track with an incline of say, 40 degrees and vary the pitch to 10 degrees about three-quarters of the way down the run.

Hoist

Homemade hoist setup (right above) is powered by an electric hoist and utilizes a cage-like affair onto which hampers of work are rolled. The cage is lifted to a balcony which leads to the cleaning room.

Safety chain keeps baskets from rolling out of cage while in transit. Hoist is suspended from a short mono-rail at the ceiling. Cage is pulled over onto balcony floor through opening in railing.

Same plant has more elaborate elevator for use in bringing finished garments back down to ground floor.



SIMPLE HOIST at Virginia

Improved first-floor layout or expansion of first-floor space sometimes makes it possible to clear much of the basement area. In such cases, installation of a fur vault is well worth considering. If ceiling height is over 10 feet, a 2,000-coat vault can be installed in an area of 400-500 square feet. Ceilings lower than 10 feet permit only one-tier construction, and would require 800-1,000 square feet for 2,000 coats. You can figure two coats per square foot per tier.



"Our fast service for the Air Corps is catching on!"

Installing the Layout

THERE IS NO ONE best way of making layout changes. How much time the changes will require and how much they will cost depend upon a number of factors, the chief being the source and quality of your labor. If you yourself are a competent mechanic, or if you are blessed with a first-rate maintenance man, most of the work can probably be handled with your own staff.

If the job is too much for you, you'll have to hire workmen to do it. Some jobbers and manufacturers have crews which will handle installation, but local union regulations often preclude

this arrangement. Nearly all of the manufacturers are happy to send a man to supervise installation of equipment and to demonstrate the hooked-up machine.

It is well worth your while to line up a good local plumber, electrician and mechanic, if your own personnel aren't able to qualify in these skills. Local people retained by you are likely to do the best job of installing equipment.

In any layout change, preplanning is the key to saving time and reducing errors. In most cases it is necessary to plan changes so that they may be carried out over a weekend. If the changes are substantial, a drawing of the arrangement of all machinery and rails should be prepared. The drawing should be checked with local authorities, insurance companies (if any of your coverages are affected), and against the building construction. Floor space will have to be sufficient to support any close groupings of machinery. Ceiling strength will have to be checked for slickrail and pipe supports.

When the machinery and slickrail layout has been thus checked out, a piping diagram should be drawn, preferably on a second copy of the regular layout print or photostat. Steam lines can be drawn in one color and vacuum lines in another. Such a diagram will not only be helpful for installation, but will make possible the most economical use of pipe.

A third diagram to be drawn, also over the regular layout print, is a lighting layout. You can usually have this done for you, at no cost, by the local utility company. These companies have regular service engineers who will draw up a lighting arrangement of the entire plant complete with location of panel boxes.

The rest of the job consists of going to work spacing off floor areas and planning and precutting pipe. In many cases steam and vacuum lines as well as some slickrails can be installed before machinery is moved.

Before your layout is finally decided upon, there are a number of points

Parkway Cleaners, Chevy Chase, Maryland, took future layout changes into consideration in laying out its new plant four years ago. All steam, air and water lines were tapped at 4-foot intervals with capped tees. Frictional loss caused by the tees will be more than compensated for when the time comes to move equipment around.

In addition, all headers are tapped on the upper side only by the risers. Thus condensate tends to drain away from the equipment. Drain valves are set in all lines where necessary to draw off condensate.

which should be taken into consideration that have not already been mentioned:

1. Make provision for lubrication of machinery. Allow at least 18 inches between equipment and wall for this purpose.
2. Allow a reasonable area for maintenance and repair of equipment.
3. In wiring extractors, remember that the draw of starting current is much higher than running current. Extractors require larger wire and line fuses.
4. Be sure that steam lines are large enough for distances covered and equipment served.
5. Ventilation — a very important item, especially in the summer. You may find it wise to check with a cooling engineer on this. Remember, exhausting hot air does not create unpleasant drafts. Blowing air into the plant often does. Steam-air finishers throw off a great deal of heat, so special exhaust facilities at these machines are a good idea.
6. Provide room for fire-fighting and first-aid equipment, timeclocks and cards, office space and toilet facilities.
7. In laying out slickrails, provide room for temporary storage of garments between departments. Don't allow too much room, however, as stragglers may lie around too long.

One large drycleaning machinery manufacturer lists these as the most common errors made by drycleaners in plant revisions:

In the cleaning room:

—Trying to get by with too small a filter. If you increase your washing capacity, make sure that filter capacity is still adequate.

—Too small a still. Prolonging periods between distillation or rinsing with an inadequate supply of pure solvent is bad for quality.

—Too small an extractor. Overloading an extractor may prolong the extraction cycle, waste solvent, or be responsible for hard extractor wrinkles.

In the finishing room:

—Trying to work out a new layout around an existing piping system. Saving a little pipe at the expense of unit efficiency is false economy.

—Not allowing sufficient storage space between departments. Storage space should be geared to the lot system. If the inspector brings unfinished garments to the finishers every half hour, there should be storage space on the rail ahead of the unit for a half hour's finishing production.

8. Make sure that sewers and drains will be where needed. If local codes permit, work out an arrangement for easy removal of filter muck.

9. In planning height of slickrails, remember that it is more important to keep the rail within reach of a short finisher, who will be lifting garments up to it all day, than to raise the rail beyond her reach to accommodate the one or two six-footers in the plant. Reaching is harder than ducking. Local fire regulations often stipulate height of rails.

10. Keep aisles wide enough so that baskets or trucks can pass without affecting anyone's production.

Keep Maintenance in Mind

It almost goes without saying that the ease or difficulty of layout installation depends on how carefully it is planned. Remember, the money and time you spend in making or changing

a layout is an investment, and that the pay-off is proportional to the planning. How much the layout eventually saves is what counts, not the initial costs.

Plant layout and maintenance go hand in glove. If you were far-sighted enough to save your 1952 Guidebook on maintenance, read through it again. It is full of money-saving installation suggestions.

For instance, before you install a machine, or even decide where to put it, make sure that you study the installation and maintenance specifications carefully. It may be necessary to climb behind it, on top of it, or under it. Equipment that must be frequently cleaned such as filters and stills should be so located that muck won't be tracked over the floor. Make sure that all valves are accessible, that control panels can be easily reached.

Leave room for necessary guard rails so that employees won't be bumping into them all the time. If you are putting up walls or stairs, make the corners rounded so that they may be easily swept out.

In preparing for the actual installation, make sure that all necessary parts are provided, that provision has been made for protection of surrounding machinery. If you are calling in expensive outside help, having everything ready ahead of time will knock hours off the time you will need them. If you are planning the job for a night or weekend so that the plant need not be shut down during working hours, watch out that you don't tackle too much at a clip. You won't like the sight of the employees standing around on Monday morning while they wait for the job to be completed.

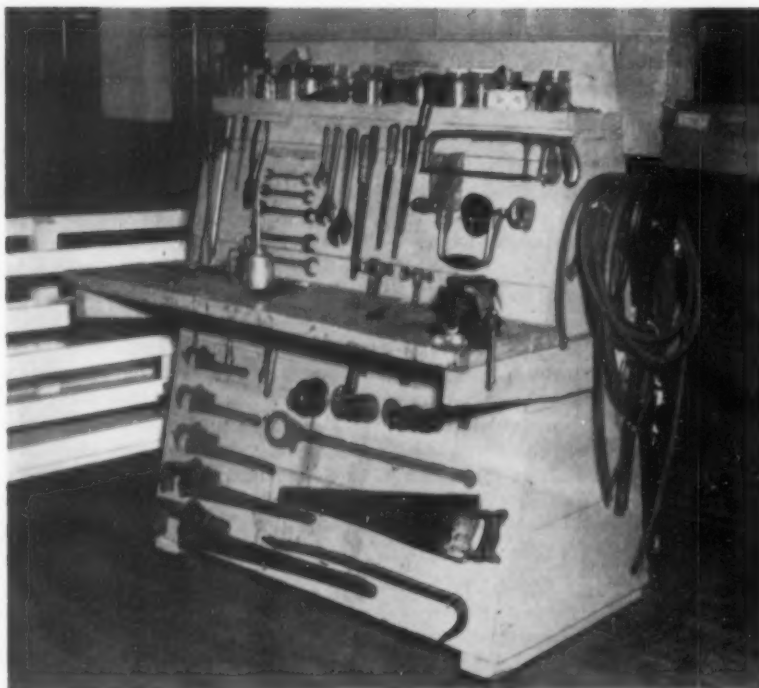
Perhaps the most important aspect



Ceiling construction has a lot to do with ease of installing or moving slickrails. When Louis Dlugatz, partner in Gilman Cleaners, Middletown, New York, was looking for construction ideas to be used in building a new plant, light steel joists were selected as a means of supporting the roof instead of the usual I-beam arrangement. At Gilman, a 90-by-100-foot ceiling is supported by three I-beams and a series of joists set in parallel rows about 2 feet apart. The joists project downward from the ceiling about 6 inches.

Big advantage of the joists, which cost no more than conventional I-beam supports, is their supplementary role in anchoring sprinkler pipes, electrical wiring, hanger racks and slickrail goosenecks. Goosenecks are threaded at the ceiling end, inserted through holes in the lower sections of the joists, and held in place by two nuts.

As the joists stretch across the entire area of the ceiling, slickrail supports can be moved to any desired location in a very few minutes.



WELL-ARRANGED workbench can be moved wherever needed

of equipment installation is making sure that the machine will be level. This is, of course, especially true of important equipment. The supports of your floor have a lot to do with where the piece may be located. A machine that isn't level is subjected to strains and stresses that will shorten its useful life tremendously.

Remember that it takes time for buildings to settle. This applies equally to concrete foundations for equipment. Chiseling a little on the recommended depth of a concrete foundation is asking for trouble.

Check the levelness of a floor with a straight-edge long enough to extend the distance between floor supports.

Problems of three-floor operation have been solved by Shalett Cleaners, New London, Connecticut. There's even a fur storage vault on the fourth floor.

The basement level houses the cleaning room, space for route trucks to unload and route marking. Assembly and shipping are on the street floor, as well as the plant store, plant store marking and offices. Markers move from one marking station to the other as required. Trucks load at the street level.

Finishing, spotting, repairs and inspection are all on the second floor. The only backtracking is when reruns must be sent from spotting down to the cleaning room. An elevator connects the three production floors.

If the floor isn't level before the machine is hooked up, shore it solidly. If the floor can't be properly shored, or if the concrete base of a machine has settled, you will have to shim the legs or base of the machine carefully.

Here's a chart for proper pipe sizes when installing presses. If the line supplying the presses is too small, efficiency of all the units is reduced.

Pipe Size	Presses
$\frac{1}{2}$ "	2
$\frac{3}{4}$ "	4
1"	6
$1\frac{1}{4}$ "	10
$1\frac{1}{2}$ "	14
2"	25

With the new layout in our drycleaning finishing department all units are set up for one-operator operation. For example, our silk finishing units have sleeve bag steamer, hothead press with vacuum, puff irons, steam iron with finishing board. We have increased our production from 11 to 13 p.o.h. to 14 to 16 p.o.h.

Pants units have one topper and one utility, air-operated, and we increased from 25 to 30 p.o.h. (We took out our leggers after six months due to poorer quality.)

Coat units have utility press, puff iron, steam-air finisher, touch-up board with steam iron, giving us much better quality. Production averages 20 pieces p.o.h. on coats and jackets. We did not have this unit before so can make no comparison.

The shirt unit (in Florida we run very heavy on shirts, most of them with long sleeves), with utility press and touch-up board with steam iron, gives us 15 to 17 pieces p.o.h.

Installation of slickrails with a main line and side rails feeding the main line greatly improved inspection and handling of finished garments. Split-rail assembly speeded up assembly and bagging. We use premarked tags.

After completing our moving of equipment and installing slickrails throughout, we made time and motion studies and revamped our incentive system. We just

completed this late in December of 1952 so we have just passed one year as is.

Our fiscal year ends March 31. With our last statement for 44 weeks, our drycleaning productive payroll was 27.40 percent for the year to date. Our budget is 27.40 percent and with eight of our peak weeks of the season yet to come we will finish up well under our budget. Last year our budget was 29 percent.

I took for a comparison one week of last year and a week of this year with comparable sales. They were actually \$21 more this year with 119 fewer hours or 12 percent. We are still improving on this and with our base prices of \$1 for a plain suit or dress we must give a quality job. All our departments are running well over 100 percent of our standards.

We have felt a great improvement in production, with increased wages and lower productive payroll which speaks for itself. Bear in mind that our production does not compare favorably with most Northern plants which have a much more uniform volume throughout the year than we do in Florida, where we have low summers and tremendous peaks during the season.

F. A. Prather

Prather's Drycleaning, Laundry, Rug Cleaning
Fort Myers, Florida

Where To Put Sidelines

Shirt Laundry

The shirt laundry is normally separate and distinct from the drycleaning operation. One good reason for this is that unless laundry machinery is equipped with explosion-proof motors there is always the danger of igniting petroleum solvent fumes.

Much, of course, will depend on the position of the present equipment and space available in your plant. If the plant is crowded, perhaps a second floor or even the basement may be adapted.

The most prevalent trend these days is to push new services to the front of the store for public display. The rhythmic operations of shirt finishing, for example, provide an interesting sight to passersby and give added meaning to shirt-service signs. It may be advisable to delegate wash-

ing and extraction to the wetcleaning department to keep the need for additional equipment to a minimum.

Basic equipment for the shirt laundry will include a washer, extractor and a finishing unit. A setup of this type usually calls for three operators, with two on finishing and one handling the marking, washing and packaging.

A compact three-operator shirt laundry can be fitted into a minimum floor space of 175 square feet; however, for more comfortable working conditions, the average space is usually

JIFFY DRYCLEANERS

TRY OUR 'EXTRA-SERVICES', SUCH AS:

YO-YO RESTRINGING... VENETIAN BLINDS STARCHED...
HATS BLOCKED-IN-YOUR-OWN-HOME... (SPECIAL)
FUR, GOLF CLUB, AND MEAT STORAGE.....
SMOKE FILLED ROOMS AIRED AND DUSTED...
FENCES PAINTED... LAWNS MOWED... LET US
CLEAN YOUR FURNACE!... MOTH PROOFING...
RAKES, DRAPES, TAPES, CAPES, ETC. STORED...
ASK ABOUT OUR DELUXE AUTO TOURS...

TODAY'S SPECIAL
CARS WAXED

SCISSORS
SHARPENED
FAST!
(ALMOST REAL!)

FOREIGN TOURS
U.S. ARMY
RECRUITING
STATION

"Sorry, the sidelines got so popular we gave up drycleaning."

250-300 square feet. The smallest practical shirt department produces between 2,000 and 2,400 shirts per week with three operators.

Rug and Carpet Cleaning

There is a high potential volume of rug and carpet cleaning as yet untouched by either the independent rug cleaners or the drycleaners. For the small operator, a rotary scrubber and a vacuum are the most necessary pieces of equipment. You will also need a well-drained floor big enough

TWO-GIRL shirt unit requires little space. Wet-cleaning department handles washing, extracting



to hold at least two 9-by-12-foot rugs, and a second room with a minimum of eight poles slung on pulleys to raise the rugs for drying.

The biggest bottleneck in rug cleaning is the dryroom. Practically any plant can clean at least twice as many rugs as it can dry. The average drying time runs from 3 to 4 hours with special scientific equipment and more nearly 12 to 18 hours without it.

If you can make a dryroom by closing off a corner of the garage and installing a couple of unit heaters or blowers, so much the better. Such an operation can do \$5,000 to \$10,000 annually without too much strain.

If rugs and carpets are cleaned in any volume at all, then at least one skilled employee must be on hand. And if repairing of rugs and carpets is to be done, then an additional 300 to 400 square feet of space will be required as well as additional equipment for carrying, serging, binding and fringing rugs.

Another rug possibility—and a natural for any drycleaner with one or more big washers—is rug drycleaning of soft-back rugs such as Orientals. Drycleaning offers the best means of cleaning fragile or worn rugs, and at prices starting at 10 cents per foot this sideline has interesting profit possibilities.

Shoe Repairing

Some cleaners object to shoe repairing because they feel a department of this type tends to clutter up the store. While the machinery and work in progress should be more or less on display, most of the untidy aspects of the department can be hidden with the aid of a few well-placed partitions. Rather than occupy the whole side of the call-office lobby, the de-



"The shirt girls got to complaining about the heat, so . . ."

partment should be restricted to an alcove. Allowing room for aisles and display cases, an area 15 by 25 feet should be a liberal allocation for this sideline with all its equipment.

Of all the sidelines, this is perhaps the one most likely to be run as a concession with the shoe repairer providing his own equipment, labor and supplies. On this basis, the cleaner may receive 30 percent of the gross income to cover rent, power, light, advertising and services performed at the store counter.

Hat Cleaning

Hat cleaning, whether by hand or in the wheel, may be done in the drycleaning department. The key to good hat cleaning is soil removal with the least possible abrasion of the felt. Any drycleaning-room employee who real-

izes this and a couple of other fundamental rules should be able to handle the job with minimum training.

One of the plant's better pressers can be instructed to perform the highly important but relatively simple finishing and blocking operations. The minor hat-sewing jobs which are not totally eliminated by band and lining stickers may be routed to the plant tailoring section.

Some plants hire one man to handle the entire operation. When hat volume is light, this operator may clean gloves and other leathers or handle another sideline which, like hats, does not demand full time.

Floor space required for a sideline in hats is governed largely by the dimensions of the finishing equipment. In almost all cases finishing operations are concentrated on a single table. Hence, together with storage space, the entire hat department should not require an area larger than 8 by 8 feet.



ATTRACTIVE shoe repair department can be call office asset. Little space is required

Leather Cleaning

This is done in the drycleaning room. Hence in addition to the regular drycleaning equipment the room should be large enough to contain such items as an ironing board, spray gun, sleeve forms, glove forms, etc. Spraying can be done on a hanger, but will be much more quickly and effectively applied if a dress form is used or an old windwhip converted to distend a jacket with a blast of air. Whatever the arrangement, the spray chamber should be thoroughly ventilated by an exhaust fan.

This spray chamber, built like a shower stall at least 4 by 4 feet, is rather important for confining the air-



HAT DEPARTMENT will fit into almost any 8-by-8-foot corner where steam is available

borne dye. Although the exhaust appears to carry off the excess color, there is a gradual build-up on surrounding equipment and furniture if the spraying operation isn't screened off. The form for the jackets should revolve so that the floating dye will always be drawn away from the operator by the fan.

This department will also require about 20 feet of shelving for dyestuffs, lacquers, thinners, and dressings. And there should also be some rack space, preferably dustfree, for the jackets to hang on and dry out between coats, which may take as long as two days.

Repairs and Alterations

Repairs and alterations are almost taken for granted as being part of a drycleaning service—at least by the customer. Hence, tailoring should be a natural sideline in a garment maintenance establishment. It can range from the simplest of paid repairs to the most extensive alterations, amounting to actual garment remodeling, according to the inclination and attitude of the plantowner.

Equipment needed for a tailoring department is relatively simple and inexpensive. In addition to a sewing machine for each operator, a large cutting table is required if alteration work is undertaken. Racks and cabinets are needed for supplies and a dummy for fitting. An ironing board and steam electric iron should also be readily available in the department.

Supplies needed for a tailoring department are neither extensive nor expensive, and require practically no floor space. Shears, needles, pins,

tailor's chalk, tape measure, hem marker and ruler are obvious necessities. Thread should be available in an adequate range of colors and sizes. And a good supply of replacement buttons is especially important. If all these items are arranged in good order a minimum of time is spent in searching and the impression on the customer is much more favorable.

Other basic supplies needed are bindings, hooks, snap fasteners and zippers in various sizes and commonly used colors, lining and innerlining material, pocket linings, a selection of shoulder pads, underarm shields, and waistbands for trousers.

The extent of repairs will determine its position in the plant setup. In any event, it should be near the call office so that customers won't have to walk through the plant. If the department is plainly visible to customers and passers-by, so much the better. Good light is, of course, essential. A small fitting room, which might double as a press-while-you-wait booth, is needed. Either in the fitting room or elsewhere in the department a full-length mirror should be provided.

A one-operator tailoring department will require a space of about four by eight feet. Since the same table, which takes up most of the room, can be used by all operators, the only space required for each additional employee would be that taken up by a sewing machine and chair, plus that little extra for elbow room.

Any tailoring department which handles alterations, particularly on men's garments, requires the services of at least one skilled operator. For most other jobs a seamstress is adequate; any woman who knows how

to sew can usually handle the work with little or no special training.

Charges for repairs and alterations are usually figured on the basis of the amount of time required to do the job. Thus, the volume necessary for profitable operation must be figured not on the number of jobs handled, but on the dollar value of the total.

Although there is a basic year-round demand for repairs, there are seasonal peaks, just as in drycleaning, in the spring and fall. In Northern climates the busiest time would come in the fall, since winter wardrobes are more extensive; in the South, the high peak would be in the spring. Drastic changes of fashion will, of course, cause a heavy demand for alterations.

Tailoring volume will also vary with economic conditions. In prosperous times people are more inclined to discard or give away garments which might be salvaged by repairs and alterations in periods of depression.

Storage

Fur storage and cleaning are among the fastest-growing and popular sidelines offered by the drycleaning industry. Storage alone is an extensive activity that usually encompasses furs, wools, household items and, in some cases, lockers for miscellaneous items. The sideline almost invariably generates additional service in fur cleaning and repair. Beyond its direct benefits, a vault operated in conjunction with a drycleaning enterprise will aid the plantowner to expand his regular services.

One of the basic considerations is, of course, the necessity of a vault. Every vault has a ratio of income per square foot which can be calculated in advance and should provide an estimate of the possible gross of that department in relation to others in the plant.

For instance, the two-tier vault taking both furs and wools will accommodate about four garments per square foot. Therefore, if the average income per garment stored is \$2.50, then the vault will earn \$10 per square foot per year at practically no labor cost. If a plantowner's income in regular drycleaning per square foot is especially high and if the market promises heavy additional volume, it might be advisable to ignore storage and concentrate his efforts on expansion of his present facilities. However, when management is looking around for an additional source of revenue and a tool to broaden a plant's sales appeal, storage is a logical choice.

In finding a location for a vault the

average drycleaner will have very little choice. He may be able to place it on a vacant lot adjoining his plant; he might decide to consolidate some departments and find room in his present building, or he may plan to use a basement. Under the most favorable conditions a bank-type vault door should be in a position for public display. Aside from this merchandising factor, any vault location is satisfactory if it does not force disproportionate insurance premiums.

Rules for Low-Insurance Construction

It has been said that "low insurance rates are built into storage vaults." In recognition of this fact, the following dozen rules should be given to the architect or builder:

1. Vaults should be structurally independent of (not supported by) nonfireproof buildings. If they are connected, the connection should be made in such a way that collapse of the buildings will not endanger the stability and fire-resistant qualities of the vault.

2. Electrical wiring must be in accordance with the National Electric Code.

3. Fire- and burglarproof wall construction should consist of 8 inches of reinforced concrete, or 12 inches of brick, or 12 inches of plain concrete.

4. The floor and ceiling should be of a construction equivalent in strength to the walls, except that between superimposed vaults a 4-inch concrete slab will be acceptable.

5. Walls, floors and roof must be thoroughly bonded together and effectively waterproofed.

6. Vault doors should be of an approved 4-hour or longer classification. (A 4-hour classification means that the door has been tested by the fire underwriters to withstand fire expo-

sure up to 4 hours.) The door should be selected for the fire hazard anticipated.

7. Provisions should be made to prevent entrance of water at door or other floor-level openings. Raised or sloping sills and large drains in building floors outside the vault are recommended.

8. No refrigerant should be used that is harmful to furs.

9. Refrigeration coils should be so located or drained as to prevent condensation from dripping or running on to the vault contents.

10. Pipes carrying steam or liquid should not pass through the vault.

11. There should be a vertical clearance of at least 12 inches between the floor and bottom row of coats, between tops of coats on a lower rack and bottoms of coats on a higher rack, and above the top rack.

12. The vault contents should be stored at least 12 inches below sprinkler heads or heat-actuated alarm devices.

A vault constructed with these 12 rules as a guide will merit a low insurance rate.

In addition, the storage vault must meet the requirements of the Furrer's Syndicate in respect to burglary and marine risks. A competent insur-

ance agent will supply a list of these.

In addition to the 12 basic rules set up as guides to a low insurance rating, there are also engineering possibilities and impossibilities which must be reconciled with the desire for the lowest possible operating cost. Only slight compromises, if any, need be made between these rules and the methods used by the engineer or builder.

Let's assume that the drycleaner has ordered the engineer to build a vault, specifying that it is to be a cold storage installation. He has been given the dozen rules, and to these he adds considerations of (1) the ability of a material to support its own load (ceilings), (2) the ability of a material to support any additional load superimposed upon it (walls and ceilings), (3) appearance of the exposed surfaces of the material (walls), and (4) relative cost.

For a cold-storage vault he must remember that the purposes of refrigeration are:

1. To cool the contents, depending upon their initial and final temperatures, weights and specific heats.

2. To offset heat transmission of the cold-storage-room walls, depending upon the difference in temperature between the inside and the outside of the room, and the character of wall construction.

3. For ventilation, including lowering the temperature of entering air and precipitating moisture contained in the entering air, depending upon the initial and final temperatures of the air and its relative humidity.

4. To offset heat inside the room, including heat generated by the men working, by motors, fans, lights, etc.

Fur cleaning is highly profitable, and is a natural companion sideline to a storage vault. A small cleaning department, which will also house a fur repair setup, will require about 200 square feet. Basic equipment consists of a beating table, cleaning drum, glazing and electrifying machine, and fur sewing machine.



FUR CLEANING and repair department requires only about 200 square feet

Fur Storage Data

Number of Coats To Be Stored	Floor Area Required Square Feet	Approximate Size Room Required—in Feet	Approximate Equipment Costs
1,000	250	12 x 20	\$ 2,500.00
3,000	750	25 x 30	\$ 4,500.00
4,800	1,250	30 x 40	\$ 6,000.00
8,000	2,000	40 x 50	\$ 7,500.00
10,000	2,500	50 x 50	\$ 8,500.00
15,000	3,750	50 x 75	\$10,500.00
20,000	5,000	60 x 85	\$12,000.00

NOTE: Following conditions are assumed for data above: (1) 11-foot ceiling height for two tiers; (2) three walls exposed, ceiling exposed, floor on ground; (3) two inches of insulation used on ceiling; (4) costs include garment racks, air-conditioning equipment (with installation fee), fumigation-ventilation equipment, vault door and fumigation chamber; (5) temperature of 60 degrees F., relative humidity between 40 and 60 percent

Source: Reliable Machine Works, Inc.

Human Factors In Layout—



MOST OF US are creatures of habit and have a tendency to resist changes. As almost any layout alteration has an effect on operating procedure, some of your employees are going to have to change their methods. If they refuse or resist changing, your new layout may do more harm than good.

If, on the other hand, your employees can be made to see that their situations as well as yours are going to be improved, that the changes you propose to make are sensible, the layout

should start paying off immediately.

The first problem, then, is one of selling the new layout to the employees. Look at it from the employee's point of view. You are proposing to alter the conditions of his job, to change the way he earns his pay. If the employee has been around for some time, he undoubtedly feels that he knows as much about his job as anybody, and that his opinions on the proposed changes should at least be considered. It's smart employee rela-

tions to get the opinions of the people who are going to be directly affected by changes.

There are good arguments to use in this selling job. Doing the same volume with less labor means less fatigue. Often working conditions are directly affected. If ventilation, light, rest facilities or other aspects of working conditions are improved, don't keep it a secret. Presumably there will be greater opportunity for earnings. Explain how this will work out. Everyone knows that drycleaning is, in most areas, an intensely competitive business. Improving your plant layout puts you in a stronger competitive position, and the employees have a stake in your continued growth.

The work stations or layout units described earlier in this issue were designed to make possible more or less uniform handling of the variety of garments passing through a plant. In that responsibility for each department is localized, it is possible to set up a written procedure or description for each job. If the description is properly prepared, your training should be much simplified and your production should be higher—all because the employees know what they are supposed to be doing and no longer have the usual excuses for not following instructions.

It is not too difficult to prepare these job descriptions if you take the trouble to make a study of the job. It



"The boss forgot to pre-sell those new silk units."

Layout and Incentives

If you are not using incentives in your plant, layout changes offer an excellent opportunity to install them. If you are using incentives, a change in layout may affect the standard.

Bringing in a good incentive plan at this point not only insures that the owner will reap the benefits of increased efficiency, but will also allow the employees to increase their earnings. It comes back to the matter of getting full employee cooperation, without which the expense of improving the layout is wasted.

Remember, employees working on hourly wages rarely produce more than 65-70 percent of what is considered normal or standard production. Employees under a good incentive plan produce at the rate of 115 to 130 percent.

If the layout improvement makes possible more efficient production methods (and it wouldn't be much of a layout if it didn't) an important part of the job of installing an incentive plan is done.

is possible for the description to be too detailed, especially for a technical job such as spotting, but it is much better to describe a job in full detail than to write a description which is full of loopholes.

Here is an example of a good job description which might be written for the inspector in the plant shown in Fig. 26:

INSPECTOR: Job Duties and Responsibilities

General:

Is responsible for final quality inspection of all silk and wool garments for spots, finish and correct repairs.

Is responsible for all movement of garments from spotting to assembly.

Maintains production count of finishers.

Specific:

1. Push all garments along slick-rails to appropriate finishing work station.

2. Do all dispatching to keep lots in order.

3. Inspect, count and record all garments at each finishing station.



4. Mark garments requiring sewing with clip tag during inspection.

5. Move finished garments in lot sequence to assembly.

6. Dispatch garments requiring sewing to sewing units.

7. Inspect, count and record garments receiving sewing and move to assembly in lot order.

8. Make as many dispatches and counts per day as necessary by beginning dispatching with finishing units nearest the spotters and proceeding down the line toward assembly.

Make counts and movements of finished garments in same order.

9. After each dispatching and counting "trip" return all spotting rejects for immediate respotting. Return them to finishers next trip to maintain lot order.

10. Get and dispatch wetcleans ready, each trip to spotter.

11. Collect each production count at end of day and deliver to office.

When a description of each job, similar to that just shown, is made and each employee knows his own responsibilities and duties and performs them, you have completed an important step in making the layout work.

An important part of employee training in connection with layout changes is timing. If the changes are to be extensive, you should start training well in advance. Six weeks isn't too much time to provide.

The Pilgrim Laundry of Boston, Massachusetts, is known throughout the country for its topnotch training program. William Saville of that plant has this to say about the training preparation that Pilgrim used on one layout change:

"Several years ago we had occasion to change completely our marking and sorting-room procedure. In

order to do this with the least confusion we set up a complete demonstration booth. Then we analyzed, step by step, just how the new job was to be performed, and finally wrote it out in detail. This we called 'New Instructions for Markers,' and enough copies were made for everyone.

"We had a meeting of all marking-room personnel, carefully went over the instruction sheet, gave each one a copy to take home for study, and posted a copy at each work place. Each operator was given detailed instruction in the demonstration booth.



NO PRE-SELLING needed for this layout at Ray-D-Ant Cleaners, Helena, Mont. Employee sundeck really impresses plant visitors



Providing employees with a room of their own is a smart investment in morale. Most large plants will probably want to provide a complete dining room with facilities for preparation of hot dishes. Max I. Walker's, Omaha, has an attractive dining room (above) that accommodates 30 employees at a time. By means of a departmental stagger system, nearly 60 employees in all use the room.

Bob Walker believes that the area devoted to the dining room is as productive per square foot as space with machinery in it because of the morale-building factor.

Although smaller plants don't get involved with cafeteria facilities, space for employees to relax and eat lunch is just as important. A coffee maker and refrigerator ought to be provided

along with comfortable chairs and a table. A radio, outside phone and magazines are appreciated conveniences. City Dye Works in Boise, Idaho, was reported as even providing cut flowers on the table.

Employees should have a decent place to change their clothes, so take this into consideration in providing employee facilities. If you have more than four or five employees, individual lockers should be available.

Washroom facilities in far too many plants are disgraceful. If it would embarrass you to have a customer see your washrooms, you are not paying enough attention to the needs of your employees. Also, consider including showers in your plans—another of the plusses that boost morale and reduce employee turnover.

When we made the change-over, 10 operators picked up the new method and carried on with surprisingly little difficulty. We followed the same procedure with our sorting-room personnel.

"Just think for a moment what happened here. First, the production manager, the plant superintendent and department foreman sat down and analyzed the job. Using motion-study principles they set up the work space, worked out the actual motions and then wrote the descriptions, attempting to cover in detail all the complicated situations that can arise in a marking room which handles all types of customer bundles. They then

went over their efforts with two or three of the more experienced workers in that department. The girls found many points that had not been covered. Tryouts in the demonstration booth brought out other omissions and changes. Finally, the combined efforts produced a workable set of instructions—in fact, so practical that, except for a few corrections from time to time to keep up with changing conditions, they are still in use today.

"As we thought about it afterward, it seemed that the carefully prepared detailed written instructions were the most important single factor in the case of change-over. From that grew

the conviction that people can be successfully taught new ways of doing things, provided sufficient time and effort are used in deciding just what is to be taught, how it is to be taught and then laying it out in such detail that there can be no misunderstanding.

"The point of this is that management and the workers themselves sat down and thought it out in advance."

Not every plant, especially the smaller operators, will be able to go into such detail in planning a change. But any plant can make sure that the changes to be made are clearly understood, and that employee suggestions have not been overlooked.



GET AROUND! Getting the other fellow's ideas is rarely a waste of time. Here Hal LeRoy, NID plant superintendent, explains the advantages of the split-rail assembly system to a group of visitors at the Institute plant in Silver Spring, Maryland.

In a major layout revision of our plant, every department was changed to a greater or lesser degree. Individual marking bins have helped us to work a lot system that we can control. Twenty percent of labor was saved in this department.

A change-over to 4 percent in our cleaning room together with extractor-rinse has given much better cleaning and has reduced labor by 50 percent. The same is true in our spotting department.

One-operator finishing units, as suggested by the National Institute of Drycleaning, have resulted in better production, better quality and 20 percent reduction in labor.

The greatest benefit we derived from our change was in the checking department, where the number of checkers was reduced from five to one. The split rail was the means by which this was accomplished.

The cost of making all these changes has not been too high, since our own maintenance department was able to take care of them all.

Ewald Boehne, Partner
Henry's Cleaners, Tailors, Furriers
Schenectady 5, New York

Sources of Help

IF YOU ARE PLANNING a major layout change, or if you are setting up an entirely new layout, it's a good idea to get expert opinion. Even if you consider yourself an expert on layout, the counsel of a professional layout man is well worth having.

Allied tradesmen, especially the major equipment manufacturers and some jobbers, are the most used sources of layout assistance. Several of the reputable firms dealing in equipment are prepared to furnish complete, individual layouts to customers or prospective customers.

The allied tradesmen will be happy to supply you with templates of their respective pieces of equipment, will have photostats or blueprints made up, and will even furnish piping and electrical connection layouts and detail sheets which you can use in sending out for installation bids.

The National Institute of Drycleaning in Silver Spring, Maryland, has a thoroughly competent engineering service department which, for a very reasonable consultant fee, will supply new layouts, install incentive plans,

do time study or methods engineering—provide a complete engineering service. This service is available only to member plants. Many of the ideas outlined in this Guidebook are the result of NID research.

Management consultant firms are a third source of professional help. There are a number of these firms in the country, and most of them are reputable. If you want to use an out-



side management consultant but don't know whom to contact, write to Robert E. Williams, Secretary, Association of Consulting Management Engineers, 347 Madison Avenue, New York. Mr. Williams can supply you with a list of firms that you may care to contact. There are, it should be pointed out, a number of good management consultants who are not members of the Association of Consulting Management Engineers.

One point regarding professional advice warrants special emphasis. If you get the help of an expert, take the expert's layout and *follow it closely*. Tinkering with it, or injecting your own brain waves will often destroy or greatly reduce the layout's original efficiency. Give it a fair chance to do a job.

Successful layout is the combination of a lot of little things, and there is scarcely a plant in the country where the production doesn't include some feature worth study. Visit as many plants as you can and keep a record of features that might improve your own operation.

TOOLS

For Layout



A GOOD LAYOUT is usually the product of considerable juggling, especially if more than one person has a say in it. The place for this juggling is on the drawing board, not on the floor. Good drawings not only provide a means of visualizing the completed layout, but are almost essential to layout installation.

If your changes are to be minor, simple drawings will probably be enough. Comprehensive changes will require closely detailed drawings. Preparation of the later is a fairly complicated procedure, and if you want to make your own you already know or soon will know that a little knowledge of mechanical drawing comes in handy.

Anyone, however, should be able to make his own simple drawings. You will undoubtedly want to indicate your own ideas and wishes on paper no matter who makes the final drawings.

This is not at all difficult, and the tools needed are few and simple:

1. Several large sheets of $\frac{1}{4}$ -inch graph paper. Each square will represent one square foot in the plant.

2. Templates of the equipment involved. Templates are exact silhouettes made of paper or celluloid and scaled $\frac{1}{4}$ inch to the foot. Equipment manufacturers or jobbers will supply

templates for almost any piece of equipment. The templates shown on page 91 were designed by the Gross Engineering Co., Constantine, Michigan, which also sells an entire layout kit.

3. Masking tape to hold the templates in place.

4. Drawing pencils and erasers.

5. A T-square and right-angle. These are not absolutely necessary, but will come in handy.

In addition, make sure that you have a list of local rules, regulations and restrictions which apply to building changes or designs. Your eventual layout will probably have to be approved by local authorities, so you might as well try to do it right the first time.

When your tools are assembled, gather your measurements. A steel tape will be useful here. Make sure that all measurements are accurate, that posts, windows, doors, drains and any other important details are included. Then take your templates and

start juggling. Be sure to leave room for lubrication of equipment. When the equipment and rails are where you think you want them, tear off little pieces of masking tape and tape the templates to the cross-section paper.

You have your choice of either drawing in the pieces of equipment by tracing the template outlines, or of taking the taped-together layout to a photostat house and having a same-size photostat made. Blueprints, if they will be needed, can be prepared by a draftsman from this photostat or from your rough drawing.

Unless you have had a lot of experience with layout drawings, it is a good practice to have your layout checked by an expert. Many plant-owners without previous layout experience have a tendency to jam the machinery together without leaving enough room for garment storage, working space, aisles, lubrication, etc. Having the layout checked first may save a lot of time and money later.

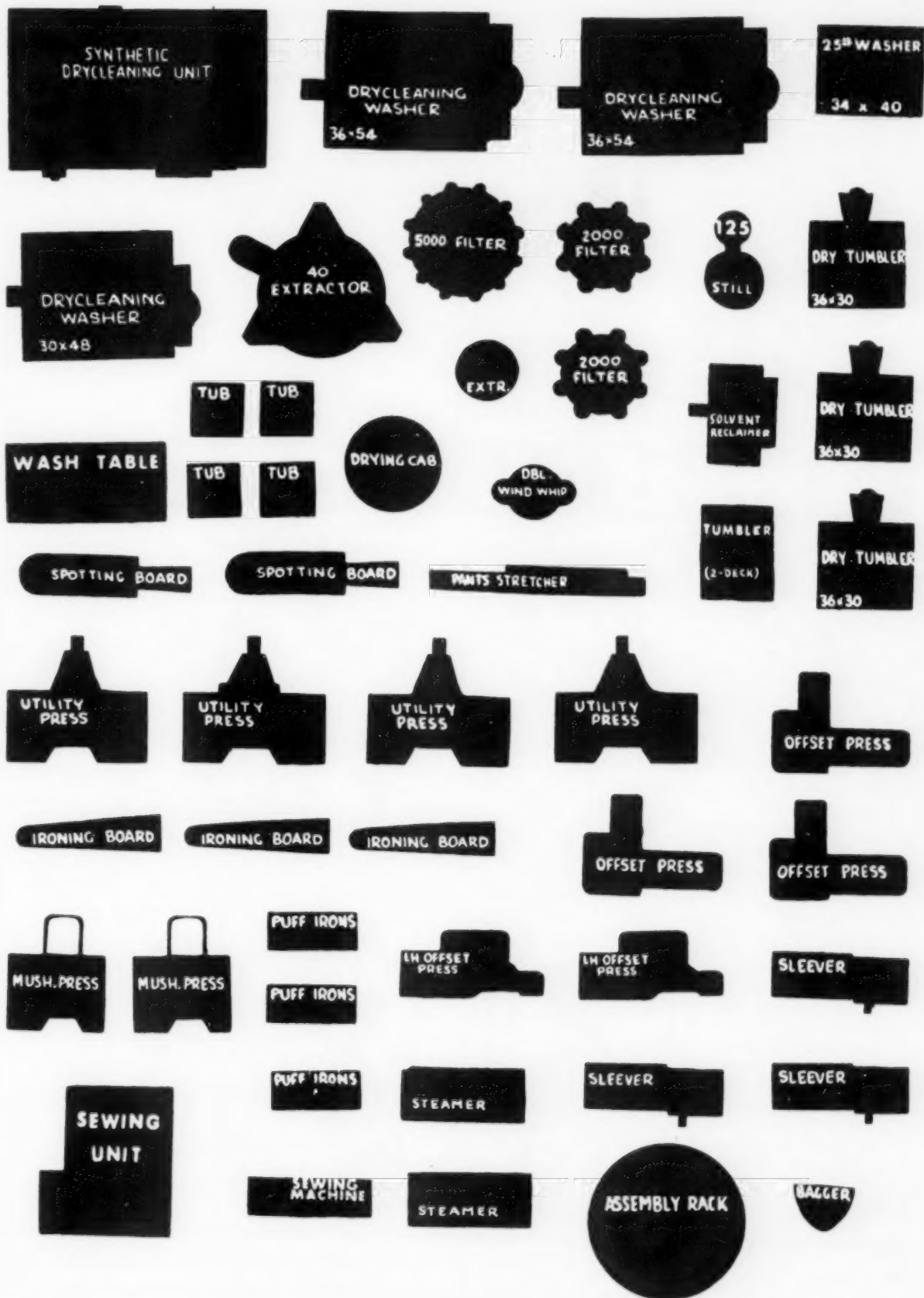


HERE ARE some of the basic tools you might use in the actual process of drawing up a layout. Working across the top of the picture and then down we have: a right angle, French curve, templates (in this case magnetic ones), an eraser, India ink, masking tape, an accurate ruler, a T-square, $\frac{1}{4}$ -inch squared paper (you will probably buy it in large sheets), hard and soft pencils, scissors for cutting tape and juggling complete units around, a pencil compass, ruling pen, and ink compass.

Use of the drawing pen and ink compass requires a little practice, and these instruments aren't really necessary unless you are going to prepare the artwork from which blueprints can be made up. Ink does make a neater job, and eliminates smudging. If you use ink, add a bottle of white tempera paint for use in making corrections.

Use of a T-square requires a straight edge. Tack your cross-section paper down on your desk or drawing table before you start.

TEMPLATE OUTLINES on page 91 are scaled one-quarter inch to the foot and may be used with one-quarter-inch cross-section paper. Most of the commonly used equipment items are represented. You may find the templates easier to handle if you paste the entire sheet on a piece of stiff cardboard and then cut the units out with a razor blade. Equipment templates not included here may be obtained from the manufacturer or you can easily make your own if you know the machine's outside measurements



25 YEARS AGO... APRIL, 1929

CHECK-UP SHOWS $\frac{2}{3}$ OF CLEANING INDUSTRY NOW ENGAGED IN PRICE BATTLES... VARIATIONS IN DELIVERY COSTS BLAMED... SURVEY FINDS DRIVERS PAID \$18 TO \$145 WEEK FOR IDENTICAL JOBS.



PREDICT 'NEW ERA' IN CLEANING INDUSTRY... NEWCOMERS TO INDUSTRY OPERATING PROFITABLY AT HALF THE OLD PRICES... THRU BETTER ADVERTISING, MORE ATTENTION TO PRODUCTION & DELIVERY COSTS



10 YEARS AGO.... APRIL, 1944

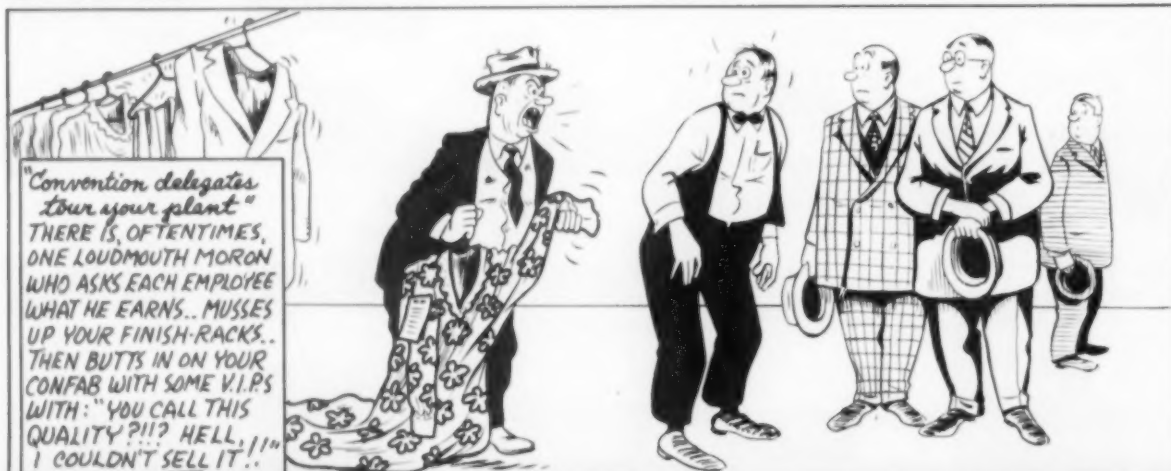


BIG BOOM IN 'DRIVE-IN' PLANTS PREDICTED FOR AFTER THE WAR... "EVERYTHING EXCEPT POSSIBLY CORSETS WILL BE SOLD THE DRIVE-IN WAY..."

IN CASE OF FIRE, CLEANERS ADVISED TO STAND AS FAR FROM THE FIRE AS ACTUAL CONDITIONS WILL ALLOW.



EASE OF HANDLING 'WATER-REPELLENT' BUSINESS INDICATES MOST CLEANERS WILL OFFER THIS SERVICE WITHIN A MATTER OF A VERY FEW MONTHS.



TODAY! "THE LITTLE SHOP AROUND THE CORNER"

DATA FOR DRYCLEANERS

THE CLEANING ROOM

The Charged System

What It Is: The term "charged system" generally refers to any cleaning system in which the solvent has been impregnated (or "charged") with a synthetic detergent. The solvent may be either synthetic or petroleum and the detergent is a soluble one not removed by filtration.

Although the charged system is often compared to the Strong Soap System which had its heyday some 25 years ago, the SSS differed in that it employed a paste soap with a heavy oleic base which was not filterable, and therefore could not be readily purified.

Main Selling Point: The chief reason why the charged system has attracted so much attention is its ability to remove water-soluble stains from the garments in the washwheel. This is attributed to the fact that a charged system holds more water in solution and this moisture (unlike the water in a fresh-soap-to-each-batch system) is *not* picked up by the garments. Stain removal in the washwheel is highly desirable since an efficient job here cuts expensive wetcleaning and spotting to a minimum.

Other Advantages: When properly used, the charged system of drycleaning has several other advantages:

1. It increases removal of insoluble soil.
2. It minimizes redeposition of soil, increasing whiteness retention.
3. It decreases filter pressure.
4. It simplifies former methods of batch cleaning and the use of multiple soap cycles.
5. It tends to lower supply costs, since detergent is re-used.

Types of Systems: At this writing there are three types of charged systems:

1. The mild charge ($\frac{1}{2}$ -1 percent)—which need not be rinsed. This charge is not new. One soap manufacturer has promoted a version of it for many years.
2. The strong charge (3-4 percent)—which should be rinsed.
3. The 4 percent no-rinse charge.

Concentration of detergent is determined as a percentage of the total volume of solvent in the entire system (washer, filter and storage tank) rather than as a ratio of soap to pounds of garments being cleaned.

The Mild Charge: The mild charge offers these advantages:

1. No additional equipment is required. Can be used where present machinery does not provide for rinsing and/or is not equipped with a still.
2. It provides a high percentage of soil removal. While quality, up to a point, is increased as the charge is made stronger, the greatest advance is made as the concentration reaches 1 percent. In other words, a 4 percent charge does not get garments four times cleaner than a 1 percent charge.
3. The mild charge permits shorter cleaning cycles since rinsing is not necessary.
4. Supply costs are initially lower for the mild charge since the detergent is used in lower concentrations.

The Strong Charge: Some of the advantages of using a strong charge are:

1. It is safer to use. A big advantage is that moderate additions of moisture can be made without raising the relative humidity to the critical range where breaks, wrinkles, excessive shrinkage, etc., may result.
2. It removes more soil, percentage-wise, than the weaker charge.
3. It is probably the most economical system in the long run since extractions are reused.
4. It facilitates the handling of garments which are to be treated with water repellents. Unless rinsed from the garments, synthetic detergents prevent water repellents from being effective. Since the strong charge requires a two-bath system this problem is reduced.

If your equipment does not have a built-in rinse cycle, it may be possible to convert it to a two-bath setup. Rinsing in the extractor is also practical and several extractor-rinse systems are on the market.

The 4 Percent No-Rinse Charge: This recent development is intended to combine the best features of both the weak and the strong charge—increased soil removal, greater moisture control with no necessity for rinsing.

Influencing Factors: Whatever type of charge is used, quality cleaning is not necessarily assured unless close control is exercised over detergent concentration, solvent purity, moisture, solvent temperature and the way the equipment is used.

Detergent Concentration: Unless the charge is kept at or near predetermined concentration, there is always the possi-

bility that too much moisture may be added to the load. The amount of moisture that can safely be used varies with the charge concentration. The charge itself does not wear out. Dilution most often occurs when fresh solvent is used in makeup to replenish the solution removed by garments in the load. Soap concentration should be checked frequently.

Solvent Purity: Unless the charged solvent is kept clear of impurities, soil redeposition is likely. When this occurs, garments are apt to look dingy, and when spotted a light area appears that can only be corrected by rerunning or wet-cleaning.

Redeposition often causes streaks and swales to appear after extraction, particularly on acetates. They may also appear on finely woven cottons, rayons, gabardines and light woollens.

Build-up of dissolved dyes must also be closely controlled. Daily use of activated carbon is a recommended means of controlling this condition.

Solvent should never contain more than 1½ percent of soluble solids. Concentration of these solids may be reduced by distillation or by providing a volatile rinse with either new or distilled solvent. If a separate rinse is used, rinse solvent can be kept serviceable by distillation and by employing sweetening agents in the rinse filter.

Relative Humidity: Moisture plays an important role in the charged system's cleaning efficiency. Too much water in the system can lead to wrinkling, shrinking, or pilling up of soft-textured wools; too little water means less efficient cleaning, especially where the removal of water-soluble soil is concerned.

On most items maximum soil removal is accomplished at 75 percent relative humidity. Certain fabrics such as soft wools, wool gabardines, and garments with water-soluble finishes should be handled at a relative humidity as low as 60 or 65 percent. The critical or dangerous area is approached as the relative humidity begins to exceed 80 to 85 percent.

Many devices have appeared on the market in recent months to measure and control this important factor.

Relative humidity indicators (hygrometers) are activated by drawing air from the washer and passing it over a moisture-sensitive element which is in turn connected to a dial. They merely indicate the RH of the solvent and any additions of moisture have to be made manually.

Conductivity has become a widely accepted means of controlling moisture. Pure solvent is a poor conductor of electricity. As water is added conductivity increases. Conductivity control devices automatically add moisture when conductivity drops below a preset range.

Solvent Temperature: Ideally, solvent temperature should be maintained at about 80° F. As a pump works against filter pressure, however, it generates heat and passes it on to the solvent. Hot solvent is a fire hazard in plants using Stoddard solvent; it causes loss of color on acetate; it increases the amount of water picked up by the garments, causing wrinkling and shrinking. Water-cooled and refrigerated units are available for controlling this problem.

Methods of Operating: Many of the difficulties now troubling charged-system operators can be eliminated by re-examining operating procedures.

The charged system, according to NID, has not done away with the necessity of classifying garments. Best results will be obtained if "wools" are separated as lights, mediums and darks; and "silks" into light and dark classifications.

Whiteness retention may be improved by adding moisture to a charged system on filter circulation rather than on batch. And it has been found that removal of water-soluble soil may be improved by underloading a washer 10 to 20 percent under rated capacity.

Time is a basic ingredient of good cleaning. Many operators could improve the quality of their work by lengthening the cleaning cycle. For maximum soil removal, petroleum-plant operators should run one-bath systems for about 30 minutes and two-bath systems for at least 30-35 minutes. Synthetic cleaners with a one-bath system are advised to keep soap runs at about 20 minutes and two-bath systems for at least 10 minutes.

Foaming in the still (caused by the boiling of water in the system), a condition which often results in carry-over impurities, can be minimized by reducing the steam pressure going into the coils.

Attention should be paid to the rag filter to see that the rags are packed properly and changed often. Otherwise free water may enter the system, which causes cloudy solvent.

Drycleaning Solvents

TWO PRINCIPAL TYPES of solvents are used in drycleaning: synthetic and petroleum. In the synthetic category, three different synthetic solvents have been used for drycleaning in this country: perchlorethylene, carbon tetrachloride and trichlorethylene.

Perchlorethylene, because of its higher safety in use and greater recoverability, has become the predominant synthetic. So far as we know, no drycleaning machines for synthetic solvents other than perchlorethylene are now being built. Practically no trichlorethylene is now being used for drycleaning, because of its tendency to bleed fugitive cellulose acetate dyes at temperatures above 80° F.

In the petroleum category, Stoddard solvent and 140° F solvent are the two in common use.

Solvent trends as estimated by NID are as follows:

	No. of plants	
	1950	1952
Petroleum	19,465	22,000
Synthetic	6,471	7,800
Both	921	1,000
Totals	26,857	31,000

One synthetic solvent manufacturer has estimated the total number of synthetic plants at the end of 1953 to be about 14,000.

Solvent consumption during 1953 is estimated as follows:

Stoddard	110 million gallons	(6.58 lbs. per gal.)
140° F	4.75 million gallons	(6.65 lbs. per gal.)
Perchlorethylene	75 million pounds	(13.55 lbs. per gal.)
Carbon tetrachloride ..	15 million pounds	(13.3 lbs. per gal.)

Advantages of synthetic solvent cleaning:

1. Nonflammable—this means lower insurance rates, fewer zoning restrictions, simplified housing.
2. Short cleaning cycle, making it especially attractive for fast-service operation.
3. Easier to install—less labor required, less floor space used.
4. Less heat required for drying, more solvent saved.
5. Greater solvent action on greases, oils, etc.; 10 times greater than that of petroleum.

Advantages of petroleum solvent cleaning:

1. Fumes are not as toxic as those of synthetic.
2. Loads are not limited to the smaller capacities of synthetic machines.
3. Solvent is more stable, less corrosive than synthetic solvent.
4. Solvent cost per pound of cleaning is lower than with synthetic solvent.

Physical Properties of Synthetic Solvents

	Carbon Tetrachloride	Trichlorethylene	Perchlorethylene
Chemical formula	CCl_4	C_2HCl_3	C_2Cl_4
Boiling point, ° F	169.7	188.4	250.2
Latent heat of vaporization at boiling point, B.t.u./lb.	84.2	103.0	90.0
Specific heat, liquid	0.205	0.225	0.205
Viscosity, liquid (68° F) cp.	0.969	0.58	0.88
Surface tension (in air) dynes/cm.	25.4 (in nitrogen) at 77° F	approx. 29 at 86° F	32.32 at 68° F
Specific gravity (20°/4° C)	1.594	1.464	1.623
Pounds per gallon (68° F)	13.3	12.3 (59° F)	13.55
Vapor pressure, mm. Hg. (68° F)	91	58.5	14.2
Evaporation rate (ether = 100)	33	28	9
Flammability, Underwriters' Laboratories rating	0	3	0

Petroleum Solvents

STANDARDS for petroleum distillates used in drycleaning cover physical and chemical properties, methods of testing, certification of quality.

Standards for Stoddard Solvent:

(Commercial Standard CS 3-40)

1. **Material:** Stoddard solvent shall be a petroleum distillate.
2. **Appearance:** It shall be clear and free from suspended matter and undissolved water.
3. **Color:** It shall be water-white or not darker than 21 by Saybolt chromometer.
4. **Odor:** Solvent shall be free from rancid and objectionable odors.
5. **Corrosive Properties:** Copper shall show not more than extremely slight discoloration when submerged in solvent for three hours at 122° F.
6. **Doctor Test:** Solvent should react negatively.
7. **Sulphuric Acid Absorption Test:** Not more than 5 percent of the solvent should be absorbed by CP sulphuric acid (93.2 percent).
8. **Flash Point:** Shall not be lower than 100° F.
9. **Distillation Range:** When a sample is distilled according to specifications, not less than 50 percent should be recovered when the thermometer reads 350° F and not less than 90 percent when the thermometer reads 375° F, and the end point shall not be higher than 410° F.
10. **Residue:** When a sample is distilled the residue shall not be more than 1.5 percent.
11. **Acidity:** Residue from distillation shall not show an acid reaction.

A petroleum solvent meeting the above specifications is classified by Underwriters' Laboratories, Inc., in a class with kerosene in respect to fire hazard.

Standards for 140° F Solvent:

The 140° F solvent has been developed in an effort to produce a workable solvent that would have a flash point higher than that set for Stoddard solvent and would show a high degree of safety in regard to fire hazard.

The main specification required by the Underwriters' Laboratories for 140° F solvent is that the flash point be a minimum of 138.2° F. According to the Underwriters' listings this type of solvent is placed in a class between paraffin oil and kerosene.

The Stoddard solvent specifications are concerned only with the solvent and do not require any designated type of equipment.

In the use of 140° F solvent, specifications have also been set up in respect to the type of equipment in which it should be used for maximum safety. In some cases the equipment approved has been tumblers and drying cabinets. Some

complete drying units have been approved for the use of 140° F solvent.

Approved drycleaning systems together with particular listed drying cabinets or tumblers are suitable only for use with listed cleaning liquids classified with respect to fire hazard and complying with the following specification:

1. **Flash Point** (closed cup): Not lower than 138.2° F.
2. **Initial Boiling Point:** Not lower than 357.8° F.
3. **Ignition Temperature:** Not lower than 453.3° F.
4. **Lower Limit of Explosion Range:** Not less than .8 percent by volume in air at initial temperature of 302° F.
5. **Spontaneous Heating:** The cleaning material shall not heat spontaneously.

The color, odor, corrosion and doctor tests are the same as for Stoddard solvent.

Along with the use of approved systems, the installation should be set up in accordance with the standards of the National Board of Fire Underwriters for safeguarding drycleaning and dyeing plants. Authorized inspectors should be consulted before installation.

The use of either of these solvents is regulated by the state fire marshal's office and the regulations vary considerably from one state to another.

Source—Anderson-Preichard Oil Corporation

How To Reduce Cleaning Costs

Hold-up of solvent in garments after extraction: Varies with efficiency of extractor, which is based on the diameter of the extractor basket and speed of extractor. This factor is built into machine and cannot be varied.

Length of extraction time: Can be varied.

Example: Variation in amount of solvent left in clothes after extraction. Garments extracted were wool, extraction time seven minutes in all cases:

Machine No.	Diameter of basket	Extraction speed	Solvent hold-up %
1	27"	900	12.5
2	30"	860	12.5
3	34"	810	13.5
4	30"	750	14.5
5	32"	640	16.0
6	24"	550	22.0

Recovery in separate recovery-drier of solvent left in garments after extraction will reclaim 90 percent of hold-up solvent. Cleaning cost may be reduced to about 1½ cents a pound with perchlorethylene, which is the most completely recoverable solvent.

Filter loss: Much of this loss may be recovered by backwashing the sludge and steam-stripping when perchlorethylene is used. Still residues may be stripped for a further saving.

Solvent Filtration

REMOVAL of insoluble impurities from drycleaning solvent in the filter is nothing more than a simple "screening" action. If all the dirt coming from the garments were in large, hard particles, the regular filter screens and bags would do the job without the need of filter powder. But dirt, sand, lint, and slimy and gummy substances make the picture totally different.

The screens and bags in your filter are extremely fine, around 200 mesh, which means there are approximately 40,000 holes to a square inch. If you use no filter powder, these holes are plugged in no time by the slimy and gummy substances. Then your filter pressure goes sky-high and you get no more than a trickle of solvent through the filter.

When you add a good filter powder (diatomaceous silica) to the solvent, the extremely fine diatom particles mix in the washer with the impurities and are carried to the filtering surface. These particles of powder collect on the filter screens or bags and break up the gummy coating of slimes and residues. They form pores or holes so fine they can only be seen under a microscope, but through which the clean solvent can flow freely.

When the manufacturer made your filter to put out, for example, 3,000 gallons per hour, he did not guess at the amount of filtering area. It was figured out by engineers as approximately 33 square feet for each 1,000 gallons of filter capacity. Therefore, your 3,000-gallon filter would have about 100 square feet of screen area.

Suppose, for various reasons, your screens and bags have become so clogged with insoluble residues and slimy substances (through which the solvent will not pass) that only 50 percent of your filtering area is open to flow. In effect, you now have a 1,500-gallon filter instead of a 3,000-gallon filter, yet your pump is still trying to force through its full capacity of 3,000 gallons, thus developing excess pressure.

To know whether your screens in your vertical screen filter are clogged or not here is the procedure:

When you have completed a day's run, or when you consider the pressure excessive, shut off your pump and open the drain valve on your filter, allowing the solvent to drain off to a point just below the filter cover. Remove the cover and swing it aside so that you can see down between the filter screens. Now drain the solvent from the filter, slowly enough so that you do not disturb the filter cake. When the solvent level is below the tops of the screens, take a flashlight and inspect the condition of the cake on each filter screen.

You will note that some areas have no filter powder on them; some of the areas will be coated anywhere from $\frac{1}{2}$ to 1 inch thick, and the rest of the screens will be splotted here and there with only a thin cake. Where there is no filter

cake, there has been no solvent passing through; all the solvent went through those areas on which the powder is deposited in a reasonably thick cake. In the case of a horizontal type filter, where the filter powder lies on a flat plane, this "spotty" cake is not found, due to the fact that its construction causes even distribution of the filter powder.

If the screens had been properly cleaned and kept clean by proper precoat, the filter cake would be uniformly distributed and of even thickness and color texture.

Cleaning Filter Screens

The proper way to clean your filter screens is to use 1 or 2 pounds of caustic soda to each 5 gallons of water in a tank or tub large enough to immerse the screens. Bring this tank of solution to a boil and then immerse the screens for at least 30 minutes. For bad cases of clogging, some plants soak the screens in the cold solution overnight and bring to a boil the next morning.

Next, rinse each screen thoroughly in another tub of boiling water, then steam thoroughly from top to bottom with wet steam. The trick to the above operation is to take the screens out of the boiling hot caustic solution one at a time, to the boiling hot rinse water, then to the steam hose. Above all, do not permit the screen to dry from the time it is taken from the caustic solution until it has been thoroughly steamed, working from top to bottom. If you do, the emulsified slimes and greases will precipitate and harden and be almost impossible to remove.

Wipe the screen very carefully. Be sure in wiping and blowing with steam that you do not break the soldering on edges; this will cause screens to develop leaks.

Now how can you keep your screens from getting gummed up again? The answer is with a properly applied precoat.

Precoat and Operation

First, fill the washer to the proper level and the filter full of clean solvent. In filling the filter, keep the air valve open until solvent starts to run out, signifying that it is full. Now, close the air valve and add to the clean solvent in the washer one pound of filter powder for each 10 square feet of screen area. Start the washer and mix the powder thoroughly with the solvent. Then you can start the pump. Allow the solvent to circulate through the filter and washer until it shows clear in both sight glasses.

You are then ready to start your daily operation.

The most important thing to remember during the day's cleaning is that filter powder should be used on every washer load. The next most important point is to use the right amount of filter powder—not too much, not too little. If one load is run without filter powder, the surface of your

Minimum Filter Powder Usage

Stoddard and Large Synthetic Solvent Filters

For Precoating

Filter Capacity	Amount of Powder
1000 gals. per hr.	2 pounds
2000 gals. per hr.	4 pounds
3000 gals. per hr.	6 pounds
5000 gals. per hr.	8 pounds
8000 gals. per hr.	14 pounds

For Addition With Garments or to Powder Trap

No soap used—add 1 lb. powder to 100 lbs. of fabrics.
Soap used—To break run—1 lb. powder per 100 lbs. of fabrics.
To filter rinse—1 lb. powder per 100 lbs. of fabrics.

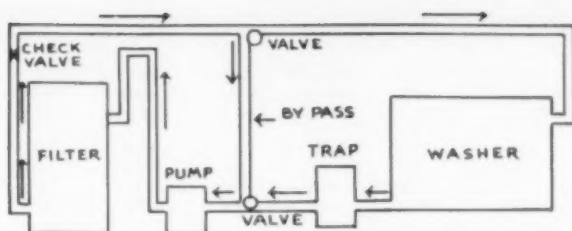
* If no break run is carried out, double quantity of filter powder is used for filter rinse.

Small Synthetic Solvent Filters

Use 1 ounce for each square foot of filtering cloth or screen.

Use $\frac{1}{2}$ pound for each 50 lbs. garments cleaned. Example: If 50 lbs. garments make four loads, add 2 ounces with each load. A less effective method is to add $\frac{1}{2}$ lb. every four loads. Add powder with garments when possible—otherwise at trap.

Source—Johns-Manville Sales Corporation



Use of by-pass maintains filter cake by continuing pressure with the pump while the washer is idle or on soap run. Also, extension of filter inlet and outlet above solvent level in filter maintains solvent level above filter cake. Check valve prevents solvent on outlet side from dropping back and pushing the cake off from inside the screens.

filter cake will start to slime over and become partially plugged, with more than normal pressure rise. This condition becomes worse for each succeeding load run without filter powder.

In a test run by a solvent manufacturer, it was found that using only $\frac{1}{4}$ pound of filter powder on every load cleaned more garments per pound of pressure rise, yet used 27 percent less filter powder per 1,000 pounds of garments cleaned than when three times this amount ($\frac{3}{4}$ pound) was added in every other load.

Another extremely important point is that, on the vertical type filter, there is nothing to hold the precoat or cake on the screens. There should be a by-pass valve to allow the solvent to keep circulating and hold pressure against the cake when no washers are running on the filter. If the pump is stopped when you are not filtering there is no pressure, and parts of the precoat and filter cake will fall off and leave the screen bare. When you start to filter again, these bare spots quickly plug up and the pressure rises faster than normal.

The same result occurs when the filter is started the first thing in the morning—after the pump has been off all night—without applying a precoat. If only one load is run through a precoat before shutting down for the night, a new precoat must be put on before starting to filter the next morning. Again, this does not apply to horizontal filters.

Three cardinal rules to remember in securing more and better cleaning with economy of filter powder are:

1. Start with and keep screens thoroughly clean with all mesh openings clear for solvent flow.
2. Determine the proper amount of filter powder to use per load of garments, according to the size of the load and the condition of the garments (one to two pounds for every 100 pounds of garments). Use the correct amount in every washer load.
3. Keep pressure against the filter cake at all times when operating a vertical type filter, either circulating through the washers or a by-pass valve. Always precoat again after the pump has been stopped even for a short time.

Source—Dicalite Division, Great Lakes Carbon Corporation

Use, Characteristics of "Sweeteners"

There are certain adsorptive filter aids that have characteristics that must not be confused with those of standard filter powders. The adsorptive filter powders have been treated with magnesium or aluminum silicates, or similar compounds, to give them an ability to strain out soluble impurities that otherwise are able to pass through the filter cake. Some of these adsorptive filter powders have been effective in prolonging the interval between distillation periods.

Since the rate at which the magnesium silicate is used up depends not only on the type and amount of soil in the garments but also on the amount of fatty acid released from the soap used, it is difficult to prescribe exact formulas. This is particularly so since these powders vary widely in character and performance.

The rule of thumb for one such powder is a precoat of 3 pounds per 1,000-gallons-per-hour filter capacity, plus $1\frac{1}{2}$ pounds to each 100-pound load of lightly soiled garments. Care should be taken to add the adsorptive filter powder through the trap or at the outlet of the washer, as it has a tendency to cling to fabrics.

Use of Activated Carbon

THE POPULARITY of the charged system has increased the need for careful control of solvent contamination. Activated carbon offers one of the best means of preventing the build-up of solvent contaminants, especially water-soluble dyes which become dissolved in the solvent.

To avoid "dusting" while handling carbon in the cleaning room, avoid dumping it too fast or from too great a height. Don't let the powder drop more than 2 or 3 inches. A good practice is to empty a number of cartons or bags of carbon into a metal ash can with a lid. In transferring the powder from the metal container to the washer you can use a one-pound coffee tin or one-quart saucepan, either of which holds one pound of carbon.

The "after precoat" method of using carbon is recommended as a daily procedure. After the filter is precoat with the proper amount of diatomaceous filter aid, the after precoat of carbon is applied. Carbon, mixed with filter aid, is added directly to the wheel. Run the washer for a few minutes to wet and disperse the carbon thoroughly. Then recirculate the solvent through the filter until the sight glass is clear. Under normal operating conditions no more carbon will be needed during the day.

The table below shows how much filter aid and carbon to use.

For Petroleum Systems

Filter Size	Step 1: Precoat with filter aid	Step 2: "After precoat" consists of carbon and filter aid
1300 gal./hr.	3 lbs.	3 lbs. plus 1 lb.
2000 gal./hr.	5 lbs.	4 lbs. plus $1\frac{1}{2}$ lbs.
3200 gal./hr.	7 lbs.	6 lbs. plus 2 lbs.
5000 gal./hr.	10 lbs.	10 lbs. plus 3 lbs.
8000 gal./hr.	16 lbs.	12 $\frac{1}{2}$ lbs. plus 4 lbs.
10000 gal./hr.	20 lbs.	16 lbs. plus 5 lbs.

For Synthetic Systems

For the average-size synthetic unit, Step 1 requires 3 pounds of filter aid as a precoat. Step 2 requires a mixture of 3 pounds of carbon and 1 pound of filter aid.

A heaping quart measure holds: $\frac{1}{2}$ lb. of filter aid
1 lb. of carbon

These dosages are not rigid. The cleaner will have to make adjustments suited to his own method of cleaning, schedule of loads, frequency of distillation, etc.

When it is necessary to add carbon during the day to handle emergencies, such as a sudden increase in color due to a bleeding dye condition, it is recommended that it be added in slurry form.

If, for example, 2 pounds of carbon are required, spill the carbon gently into a pail containing 2 gallons of solvent. Stir quietly until the carbon is wetted and uniformly dispersed. Pour the slurry into the button trap while solvent is being

pumped through the filter. Do not have any garments in the washer. As soon as the sight glass shows clear you can resume cleaning. Slurry may also be added on the suction side of the pump by providing a tee-connection and a valve.

If carbon is to be used to clean up an accumulation of dirty solvent, add the carbon in dry or slurry form directly to the washer on the basis of about 3 pounds of carbon for each 100 gallons of solvent. Run the washer for 20-30 minutes with no filter circulation. Then circulate the solvent for another 20-30 minutes through the filter. If this dosage is not sufficient, repeat the procedure.

Source—Dareo Dept., Atlas Powder Co.

Pumps for Filter Circulation

Following chart shows pump size recommended for each size of filter and speed at which each should operate to produce intended flow rate when diatomaceous filter aids and "sweeteners" are being used

Filter Gallons Per Hour	Size of Suction and Discharge Pipes	r.p.m. Pump Pulley	Diameter Pump Pulley	Gallons Per Revolution
400	1"	450	4 3/4"	0.015
600	1"	650	4 3/4"	0.015
1000	1 1/4"	375	7"	0.044
1200	1 1/4"	230	10"	0.087
2000	2"	265	10"	0.125
3200	2"	235	12"	0.235
5000	2"	350	12"	0.34
8000	3"	250	24"	0.53

Source—Viking Pump Co.

Capacities of Drycleaning Washers

Size-Cylinder Dia. x Length In Inches	Cylinder Speed r.p.m.	Horsepower Required	Capacity Lbs. Dry Weight	
			Wood Cylinder	Metal Cylinder
24 x 24	34	1/2	15	—
24 x 30	34	1/2	20	—
30 x 30	25	1/2	30	40
30 x 40	25	3/4	40	50
30 x 48	25	3/4	50	60
36 x 48	19	1 1/2	65	85
36 x 54	19	1 1/2	75	95
36 x 64	19	1 1/2	90	115
36 x 72	19	2	105	130
42 x 54	16	2	105	130
42 x 64	16	2	130	155
42 x 72	16	2	145	175
42 x 84	16	2	175	200
42 x 96	16	3	200	240
48 x 84	13	3	240	265
48 x 96	13	4	265	305
48 x 108	13	4	305	340
48 x 120	13	5	340	380
54 x 60	13	3	—	250
54 x 70	13	4	—	300

Capacities of Drycleaning Tumblers

Size-Cylinder Dia. x Length In Inches	Cylinder Speed r.p.m.	Horsepower		Capacity Lbs. Dry Weight
		Cyl.	Fan	
36 x 18 1/2	39	1/4	1/4	25
36 x 24 1/2	39	1/4	1/4	30
36 x 30 1/2	39	1/2	1/4	40
36 x 30	39	1/2	3/4	40
36 x 42	39	1/2	1	50
36 x 48	39	3/4	1	60
42 x 40	30	1	2	70
42 x 60	30	1 1/2	3	100
42 x 90	30	2	5	150
42 x 120	30	3	7 1/2	200
46 x 120	27	3	7 1/2	250

Capacities of Drycleaning Extractors

Size Basket Dia. In.	Basket Speed r.p.m.	Capacity Lbs. Dry Weight	Size Basket Dia. In.	Basket Speed r.p.m.	Capacity Lbs. Dry Weight
17	1500	17	40	925	100
20	1500	25	48	750	150
26	1350	40	60	625	250
30	1200	60	72	550	325

Kilowatt Hours To Run Extractors

Table gives kilowatt hours required to run extractors of various sizes a given time in minutes. Example: A 48-inch extractor draws 1.45 kilowatt hours for a 20-minute extraction period; at 2 cents per kilowatt hour, power cost is 2.9 cents for the load

Time In Minutes	Extractor Diameters						
	20"	24"	26"	28"	30"	40"	48"
1	.042	.050	.071	.083	.095	....	....
2	.048	.069	.082	.095	.108	....	....
3	.055	.079	.092	.107	.122	....	....
4	.062	.088	.103	.119	.135	.46	.65
5	.069	.097	.114	.131	.149	.50	.70
6	.075	.106	.125	.143	.162	.54	.75
7	.082	.116	.135	.155	.175	.58	.80
8	.089	.125	.146	.167	.189	.62	.85
9	.095	.134	.157	.179	.202	.66	.90
10	.102	.144	.167	.192	.216	.70	.95
11	.109	.153	.178	.204	.229	.74	1.00
12	.115	.162	.189	.216	.242	.78	1.05
13	.122	.171	.199	.228	.256	.82	1.10
14	.129	.181	.210	.240	.269	.86	1.15
15	.135	.190	.221	.252	.283	.90	1.20
16	.142	.199	.232	.264	.296	.94	1.25
17	.149	.209	.242	.276	.309	.98	1.30
18	.155	.218	.253	.289	.323	1.02	1.35
19	.162	.227	.264	.300	.336	1.06	1.40
20	.169	.237	.275	.312	.350	1.10	1.45

Source—AII

Solvent Tests

Test for Water in Solvent:

Make sure test tube is clean and dry, then half fill with solvent to be tested. Add pinch of anhydrous copper sulfate. Shake test tube well, then allow to settle for a few minutes. Water is present in solvent if sediment has bluish tinge.

Test for Soluble True Soap in Solvent:

The same test will indicate presence of soluble soap in sufficient quantity to cause building up of suds in washer, formation of jelly in still or scum on filter. Soluble soap present in solvent when shaking it with copper sulfate produces flocculent precipitate (a spongy, flaky bottom layer).

Test for Free Fatty Acid:

For accurate results, flask and 55 cc. graduate used for this test must be perfectly dry as well as clean. Either rinse with alcohol or acetone, requiring no drying, or, if washed with water, dry with cloth.

Pour 50 cc. of solvent to be tested into Erlenmeyer flask. Add 3 or 4 drops of phenolphthalein solution. Shake well. Next, using 100 cc. pipette, add 5 cc. of 0.0139 normal alcoholic potassium hydroxide (using synthetic methanol). While adding this solution, shake flask with swirling motion.

If pink color appears while the first 5 cc. is being added, amount of fatty acid in solvent is negligible. Each 5 cc. of testing solution that must be added to obtain pink reaction to phenolphthalein represents acid number of 0.1. If addition of second 5 cc. produces pink color, solvent is satisfactory to use. However, if it is necessary to add a third 5 cc. before obtaining pink reaction, the solvent should be treated

before further use. Up to this point, the use of one of the adsorbents will usually keep it in usable condition.

If more than 15 cc. of testing solution, indicating an acid number of 0.3, is required to produce pink color, solvent must be clarified. The acid number 0.3 has been established

as point at which solvent should be clarified because odor has been traced to solvent with a slightly higher acid number.

The drycleaner should make this test every day. The potassium hydroxide should be fresh.

THE SPOTTING DEPARTMENT

Common Spots

Albumin (Milk, Fish Slime, Egg, etc.): In some instances egg should first be scraped or brushed from the fabric as much as possible while it is dry. These stains should be digested first (before drycleaning, if possible). In digesting remember: Keep it wet, keep it warm, give it time, and keep it neutral as to acids or alkalies.

After digestion spot with a neutral lubricant followed by ammonia, if the dyestuff will withstand it. Then dry the garment, prespot with a wet-and-dry-side paint remover and dryclean.

Today's fabrics are often treated with permanent resins, including urea formaldehyde and melamine formaldehyde resins. The protein of albuminous stains will often combine with the formaldehyde of the resins and form a very permanent stain. Therefore on resin-treated fabrics all efforts frequently result in failure. This is a recent development that has been confounding spotters who previously had been able to remove such stains.

Argyrol: It is advisable to digest argyrol stains first. Then apply water or the steam gun to flush color as the stain is dissolved, thus preventing it from spreading to wider areas. Cover the stain with iodide crystals, allowing the crystals to dissolve in the water already applied to the fabric. Or, tincture of iodine can be used. Let the iodide solution soak for a few seconds. Work with spatula and flush out. Dab the stain with hypo crystals (enclosed in a cheesecloth bag) which first have been immersed in a 10 percent ammonia solution. Flush out thoroughly with water.

Sometimes the argyrol is in an albuminous solution. In this case, digest to release some of the stain, then follow the above procedure.

Berry: Wet the stain with the steam gun and flush out thoroughly by repeated applications of a neutral lubricant. Then apply a general formula, 28 percent acetic acid or 10 percent formic acid. Flush the stain again. Apply ammonia. This type of stain will generally alternate from pink to blue with acids and alkalies. When this occurs, sometimes sodium bisulfite applied with a bone spatula will overcome the indicator dyestuff.

If a stronger bleach, such as sodium hydrosulfite, titanium sulfate, chlorine, etc., can be used, that might be advisable. This will depend upon the fiber and the fastness of the dye.

Blood: Whenever possible dry-brush blood stain from the fabric and spot before drycleaning. In many cases spotting with a neutral lubricant will make it possible to flush the greater portion of the blood from the fabric. In extreme accident cases it is very often advisable to soak out the garment in cold water to rinse the heavy portions from the fabric.

If the above procedures have been used without complete success, it will be necessary to resort to digestion. If

the garment is generally covered soak in a digester bath. If only spots remain, digestion on the board might be possible. The area can sometimes be kept warm and wet by soaking the stains between wet, hot towels.

Last traces of stains can sometimes be removed by the use of hydrogen peroxide or sodium perborate.

Should the stain still remain, prespot the area with a wet-dry-side paint remover and dryclean the garment.

Candy: This type of stain is usually very easy to remove. Once the stain is broken up by tamping with a brush or using the bone spatula it can readily be flushed from the fabric with water and a neutral lubricant. Sometimes a vegetable dye may remain which can often be removed by applying ammonia and flushing with a steam gun. Should traces of dye still remain it will be necessary to use an appropriate bleach.

Carbon (Soot, Gutter Splash, etc.): This type of stain has usually contacted the fabric in a wet state. Therefore, because these stains are somewhat soluble on both wet and dry sides, it will be found that a prespotting emulsion that contains both water and dry-side solutions is most effective. Then dryclean the garment.

After drycleaning, it is preferable to treat the stain on the wet side. Wet out with the steam gun and apply a neutral lubricant or a thick wetcleaning soap. Work the stain with a spotting brush or spatula and flush out. Repeat until all of the carbon has disappeared, then flush out with the steam gun and dry.

Occasionally a stain will remain, particularly when carbon paper was the cause. This is a dye rather than carbon and should be treated with general formula after all the carbon has been flushed out.

Bleaching procedures are not effective on carbon stains.

Coca-Cola: See "Soft Drinks."

Cod Liver Oil: See "Oxidizing Oils."

Coffee (Tea): These stains should be treated before drycleaning whenever possible. Flush as much of the stain as possible with a neutral lubricant. Then add a general formula or 28 percent acetic acid along with some neutral lubricant and flush the stain. Repeat this several times.

Any stain remaining will have to be removed by bleaching. Chlorine is very effective on the yellow stain remaining but such a bleach damages wool. The color of the fabric must also be considered before resorting to bleaches.

Cooking and Salad Oils: See "Oxidizing Oils."

Corrosion, Metallic: Flush the stain thoroughly with the steam gun and a neutral lubricant. Work with a bone spatula or spotting brush as necessary. Commercial wet spotters are sometimes effective on this stain but care must be exercised so that a loss of the base color does not occur when using them. Flush the stain thoroughly and apply a rust

remover (not on metallic fabrics or weighted silk). Then prespot the stain with a wet-dry-side paint remover and dry-clean.

Dyes: Dye stains are generally considered to be wet-side stains. Their removal depends on the fastness of the dye stain itself as compared with the fastness of the base dye.

Soaking out such stains in water and a neutral lubricant, while slow, is probably the safest and the most effective procedure.

If soaking with a neutral lubricant does not remove the stain, then first test a sample of the garment fabric to determine the fastness of its dyestuff. If, for example, the base dye is fast to ammonia, it would be advisable to soak the foreign dye stains in ammonia and a neutral lubricant. If the base dye is fast to acids, then an acid such as 28 percent acetic could be added to the neutral lubricant.

The foreign dye may bleed with the opposite of the base dye of the garment. Then dye removal can be accomplished without damaging the base dye. Should the foreign dye bleed to the same agent to which the base dye bleeds, it becomes a battle of dyestuffs to see which will clear from the fabric first. In such a case the risk of damaging the base color is quite great and care must be exercised.

If such soaking procedures have been attempted and dye stains still remain, it is usually necessary to resort to bleaching. On colored garments a milder bleach must be used, such as hydrogen peroxide or sodium perborate. Acetate dyes are generally quite resistant to oxidizing bleaches and therefore even a 1 percent solution of chlorine bleach can be used in removing a foreign dyestuff, if the base dye is an acetate dye. If the foreign dyestuff is an acetate dye the problem becomes almost impossible unless prolonged soaking does the job.

Food: Apply water with the spotting brush and tamp, or flush with the steam gun or water spray gun. Then, depending on the stubbornness of the stain, follow with a neutral lubricant. Manipulate with the brush or spatula and flush out with the steam gun.

Stains that do not respond to the above treatment probably either contain albumin or are held to the fabric by sizings. In either case, the answer is spot or bath digestion.

Glue, Rubber or Cellulose: Apply solvent or a volatile-type paint remover to the stains. Then add amyl acetate. Amyl acetate works slowly and so time must be given. Rather than add a large quantity at one time, repeated applications, as it evaporates off the fabric, are advisable. In some instances an oily-type paint remover can be added after the amyl acetate which tends to reduce the evaporation rate and thus soak out the area. The stains will gradually be dissolved; the garment should then be recleaned.

Carbon bisulfite and benzol are sometimes advocated but both are highly inflammable and carbon bisulfite has a very bad odor which sometimes causes a problem. Therefore most spotters do not use them.

Glue, Vegetable or Animal: These glues are generally soluble on the wet side. In many cases digestion is advisable, followed by spotting with a neutral lubricant and ammonia—provided the dyestuff will stand it.

Grass: Remove these stains before drycleaning, if possible. Flush with solvent and apply a wet-dry soap, work with the spotting brush or spatula and dryclean immediately. If the green in the stain is heavy and bright, add a little amyl acetate to the prespotter.

To remove on the wet side, flush with the steam gun or water, apply a neutral lubricant or, preferably, a wet-dry soap. Brush with the spotting brush or work with the spatula, then flush with the steam gun. Repeat several times, if necessary. If this fails to clear up the stain on colored fab-

rics, apply general formula, working with the brush or spatula, and flush with the steam gun.

White garments may be bleached with sodium perborate or hydrogen peroxide. White cotton and linen may be given a chlorine bleach, if necessary.

Indelible Pencil: Place a piece of cheesecloth under the stained area to absorb bleeding dye, and apply a light feather of steam or water spray. Turn cheesecloth frequently so bled dye cannot come in contact with the fabric, and replace it when necessary. When the dye stops bleeding with the application of the steam gun, remove the cheesecloth and work the stain with either neutral lubricant or general formula. Then replace the cheesecloth and flush with the steam gun, repeating until no more dye can be removed.

On white or pastel fabric, remaining traces can be bleached with hydrosulfite or hydrogen peroxide. Sometimes the hydrosulfite will appear to remove the stain, only to have it return after flushing. If this happens, hydrogen peroxide should do the job.

For this type of stain it is important to check the pocket before starting, since pencil points often break off. Turn the pocket inside out, even if you must rip a seam, to ascertain if there is a stain which might later bleed from steam from the press or even perspiration from the wearer's body.

Ink (India, Indelible, Ball-Point, Printer's Ink, etc.): These inks all fall in the category of dry-side inks. They are usually heavy inks that lie mostly on the surface. Towels or cheesecloth should be handy to absorb the great amount of bleeding dye. First apply solvent to the stains. Then begin by applying an oily-type paint remover. Flush from the fabric with solvent or a volatile-type paint remover. Repeat this operation as long as bleeding takes place. Ball-point ink is readily removed in this manner and the garment can then be drycleaned. Be sure to remove as much of these inks as possible on the dry side before drycleaning the garment.

Should stains still remain, spotting with a neutral lubricant and a wet-and-dry-side paint remover is advisable. Flush this solution from the fabric very thoroughly with water and don't apply the steam gun very close to the fabric. A neutral lubricant and ammonia might then be tried. Beyond this point it will be necessary to resort to bleaching to remove any traces of the stains.

Ink (Blue, Blue-black, Black, etc.): Inks of this type are wet-side inks and not very responsive to dry-side solutions.

Keeping in mind that there will have to be an absorbent under the stains to pick up the bleeding dye, begin by first adding water and a neutral lubricant. This will immediately start bleeding. Blot up as much of the bleeding dye as possible by using blotting paper on the stain directly as well as towels and cheesecloth under the stain. Repeat this procedure so long as dye is being removed. Do not be too quick to leave this operation.

After bleeding has stopped apply an acid-type spotting agent such as 28 percent acetic acid, 10 percent formic acid, general formula, or an ink remover. Using one of these in conjunction with a neutral lubricant will again start the ink bleeding. Continue this until no bleeding occurs. Then apply a rust remover to remove any iron tannates that might be present. Flush again with a neutral lubricant. Then apply ammonia.

Any traces of color remaining will have to be removed by bleaching.

Iodine: Flush out the area with steam or water to remove excess coloring. Wrap a few crystals of sodium thiosulfate (hypo) in a cheesecloth and after immersing it in a dilute ammonia solution dab the stain with this ammoniated hypo. Continue dabbing until the last traces of the stain have disappeared, then flush out with the steam gun, feather out and

dry. To loosen up old, hard-set iodine stains, first flush with the steam gun and apply a neutral lubricant with ammonia. When no more color is moved, follow as above.

Iron Rust: Wet the area with the steam gun or water and apply a drop or two of a commercial rust remover. If the stain does not disappear immediately, apply a light feather of steam.

Lipstick: If this stain is treated before drycleaning it is not a difficult job. Saturate the stain with solvent or a volatile-type paint remover. Have a towel or cheesecloth underneath the stain to absorb the bleeding dye and pigment. Apply an oily-type paint remover if lubrication of the stain is necessary. Follow by flushing the stain with a volatile-type paint remover or solvent. Then dryclean the garment.

After drycleaning this stain is difficult to remove, particularly if the garment has gone through the tumbler and thus been exposed to heat. Much of the lubrication natural to the stain has now been removed so the first step is to relubricate it with an oily-type paint remover and flush the area with solvent or a volatile-type paint remover. Continue this as long as bleeding takes place. Then reclean the garment.

Should the stain still remain the problem becomes one of dye. Spot the stain with water and a neutral lubricant and flush as much of the dye from the fabric as possible. When all bleeding has ceased, begin adding ammonia to the stain. This will start bleeding again. Flush with water from the steam gun and a neutral lubricant. This will generally remove such stains. If not, bleaching will be necessary.

Meat Sauces: Flush such stains with water and a neutral lubricant. Dry the fabric. Then apply solvent to the area and spot the stains with repeated applications of a volatile and an oily-type paint remover. Dryclean the garment.

Metallic Corrosion: See "Corrosion, Metallic."

Mildew: Flush with the steam gun and apply a neutral lubricant to which ammonia has been added, or a wetcleaning soap. Tamp with the spotting brush or work with the spatula and flush with the steam gun. Where traces remain on white or light-colored fabrics, spray with peroxide, allow a little time for oxidation, then flush out.

Where large areas are affected, brush with a wetcleaning soap, rinse thoroughly, then give a light bleach in a perborate bath. Even colored fabrics may be cleared by permitting them to remain in the bleach for a short period, watching closely for effect on the basic dye. On white linen, cotton or rayon a chlorine bleach may be used effectively.

Mud: Let the stain dry thoroughly, then dry-brush as much as possible from the surface of the fabric. Then flush the area with water and a neutral lubricant. Dry the garment. Should any traces remain, prespot the stains with an emulsion of water and drycleaning detergent and dryclean the garment.

Mustard: Saturate with the steam gun or water and apply neutral lubricant with formic or acetic acid, or a general formula. Work with the spatula or spotting brush and flush. Repeat procedure until no more color is removed. Then, on white or light-colored fabrics (or colored fabrics that withstand a test for dyefastness) apply hydrosulfite bleach, sodium perborate or hydrogen peroxide. Chlorine bleach may be applied on white cotton, linen or rayon. This is one of the few stains that can seldom be completely removed.

Nail Polish: Nail polishes are usually readily soluble in amyl acetate. Be sure to give the amyl acetate time to dissolve the nail polish and keep the stains saturated with amyl acetate by repeatedly applying a few drops. When the stain has been dissolved, rinse the garment in the drycleaning washer.

Oxidizing Oils (Linseed, Cooking Oils, Mayonnaise, Cod Liver, etc.): This stain can be a very simple one to remove or be impossible, depending on the degree of oxidation. Therefore it is urgent to spot this stain as soon as possible and before drycleaning.

First apply some solvent to the stain and then an oily-type paint remover. Work well into the stain. Follow with a volatile-type paint remover. Tamp the spot well with a brush and dryclean the garment.

If the stain remains after cleaning, a wet-and-dry-side paint remover used on the wet side will sometimes improve the stain.

These stains can usually be identified by their characteristic cross design in the fabric. A highly oxidized stain will generally be dark to black in color.

In extreme cases a formula of one part pyridine and nine parts of solvent or oleic acid can be used to advantage.

Paint and Pigments: Paint and pigments should be removed before drycleaning whenever possible. Drycleaning and tumbling tend to dry out and oxidize the oils in the paint, making removal more difficult. Before drycleaning, paint spots can readily be removed by the use of both volatile and oily-type paint removers alternately. Then dryclean the garment. After drycleaning, a greater effort toward relubricating the paint stain will be necessary by the use of an oily-type paint remover. Then a volatile type can be used to help dissolve the pigment. Paint is most difficult on cotton fabrics and almost impossible to remove from leather.

Care should always be exercised in using a bone spatula in conjunction with paint removal because digging with the point can result in severe damage to the dyestuff or fabric.

Pencil, Indelible: See "Indelible Pencil."

Pencil Marks: See "Carbon."

Perfume: Perfumes usually contain a very high percentage of alcohol, which bleeds acetate dyes profusely. Therefore in many cases (wherever acetate dyes are present) perfume stains will mean that the dye has bled to form a dark outer ring of built-up dye. In almost all cases nothing can be done to overcome this condition short of redyeing.

In an attempt to remove the stain it would be advisable to flush the area well with a neutral lubricant and water. Then add an acid spotting agent such as 28 percent acetic acid or general formula. Flush the stain well and dry.

Perspiration: Spray with a steam gun or water and apply a neutral lubricant. Tamp the area with a brush and flush thoroughly. Add a little ammonia, if necessary, to the neutral lubricant, tamp and again flush the area.

Sometimes color changes occur under the arms. The color can be restored by the application of 28 percent acetic acid or 10 percent formic acid.

In charged-system operations garments can generally be introduced into the washer without drying, provided the system is adequately charged to absorb this moisture and the humidity factor of the solvent system has not been exceeded.

Road Oil: See "Tar."

Rubber Glue or Rubber Cement: See "Glue, Rubber."

Shoe Polish: Prespot before drycleaning whenever possible. Lubricate the stains thoroughly with an oily-type paint remover, then flush the stains with a volatile-type paint remover. Continue this as long as bleeding takes place. Then dryclean the garment.

Any stain that remains after drycleaning is usually a leather dye that is very difficult to remove. Saturate the area with steam or water and lubricate thoroughly with a neutral lubricant followed by ammonia. Flush the stain thoroughly.

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Silver Nitrate: Flush with the steam gun or clear water, add a drop of iodine or put a few crystals on the spot, and leave this on the stain for 30 seconds to one minute. This converts the silver nitrate into an iodide salt, which is soluble in ammonia and sodium thiosulfate (hypo). After thoroughly flushing out the stain formed by the combination of iodine and silver nitrate, dab the affected area with a small amount (half teaspoonful) of hypo crystals wrapped in cheesecloth which has been saturated in dilute ammonia. Flush, feather out and repeat the process if necessary.

Soft Drinks: Flush with the steam gun or clear water and apply a neutral lubricant, possibly adding acetic or formic acid. Work with the spatula or spotting brush and flush with the steam gun. If necessary, follow with a few drops of general formula and again work with the spatula or brush and flush. Last traces of color on white or pastel garments (or on darker garments after testing for colorfastness) may be bleached with hydrogen peroxide or a few drops of hydrosulfite.

Soot: See "Carbon."

Syrup: See "Candy."

Tar: Saturate the area with drycleaning solvent. Then work an oily-type paint remover well into the stain. Flush the area with a volatile-type paint remover and dryclean the garment.

In some cases a yellow stain may remain. This type of stain may be removed by the use of a few drops of carbon disulfide but this material is very inflammable and carries a rather repulsive odor. Fortunately most tar can be removed without resorting to this extreme.

Tea: See "Coffee."

Vomit: This stain often involves large areas of a garment. In some instances the substance has dried. As much as possible should be dry-brushed from the fabric. Then, if the plant is operating on a charged system, a water gun can be used to wet down the affected areas and a neutral lubricant can also be brushed into these areas. Then dryclean the garment.

It may be necessary to digest such stains. This may involve a local operation or immersion of the entire garment in a digester bath. The latter, of course, will involve wet-cleaning the garment.

Spotting Tips

1. **KEEP TIGHT CORKS** or covers on all spotting agents. Only solvents safe for use on all fabrics should be kept conveniently at hand.

2. Many fabrics are weak when wet. Use a tamping action with a brush.

3. After use, spotting brushes should be hung up to dry or left face down so the water drains from the bristles. Soaking in water swells the fibers and splits the wood base.

4. Keep spotting brushes in shape. Uneven bristles cause inaccurate applications of solvents and may hurt the fabric.

5. Couging with the point of the spatula will lead to damage claims. Excessive rubbing with a bone spatula, particularly on hard-finished fabrics such as taffetas, will often cause a loss of color.

6. Acetate dyes bleed profusely with alcohol and slightly with acids. Keep this in mind when using acid spotting agents and some prespotters that contain alcohol.

7. Use a dropper to apply spotting agents. Frequently a few drops will do the job; when small amounts are employed, removal of the agent is simplified.

8. Remember that wool dyes bleed with alkalies such as ammonia. Be careful in using hot soap solutions or using any alkali in conjunction with the steam gun.

9. Before resorting to wetcleaning consider the possibility of handbrushing with emulsions of drycleaning detergents and water or spraying down the garment before rerunning in a charged-system operation.

10. When applying a digester to an albuminous stain make certain all the soap, alkali or acid is thoroughly rinsed out.

11. Do not use rust removers on the glass top of a spotting board. Keep any of the sulfur bleaches such as sodium hydrosulfite from coming in contact with metal while it is used on a fabric. A black metallic oxide stain will result.

12. In using a steam gun keep the jet moving at all times, and keep it about 3 inches from the fabric. Getting the jet too close to the fabric may result in fuzzing.

13. Remove all spotting agents from the fabric. If they are dry, like paint removers, flush them out with a dry solvent. If they are wet, like ammonia or dilute acetic acid, flush them out with water.

14. In drying garments circulation of air is more important than high temperatures.

15. Know when to quit. In cases where it is impossible to remove the stain without danger to the fabric, it is better to leave the spot than ruin the garment.

Stains To Be Prespotted

STAINS THAT ARE SET by the heat encountered in drycleaning and pressing should be recognized readily by markers and spotters. The following stains should always be removed in prespotting:

Blood: A stain red to brown in color, both absorbed and built-up, usually found on the fronts of garments.

Coca-Cola, Root Beer, Beer, etc.: Stains of this type often develop into difficult stains. Working them before exposure to cleaning and heat is advisable.

Coffee: Color will vary from light brown to dark brown depending on the amount of cream in the coffee; entirely absorbed. Stain will tend to spread in wide splotches with irregular edges.

Lipstick, Rouge: Partial removal of the pigment may leave dye remaining unless stains are adequately lubricated before cleaning.

Mud: Exposure to the drying effect of solvent and heat causes clays present to bake into an insoluble state.

Oxidizing Oils (Cod Liver, Mayonnaise, etc.): Once these stains become oxidized through aging or exposure to heat they are impossible to remove.

Paint: See "Lipstick."

Perfume: May be identified by odor and location on front of garments. In pronounced cases may leave a round or circular stain, light in center with the dissolved dyestuffs pushed out to the circumference in a dark, heavy ring.

Pigment Dyes: A common stain on the seat and shoulder of a garment, usually picked up from leather upholstery.

Road Oil, Tar, Asphalt: Black, built-up stain with a rough, uneven surface and irregular edges. If fresh, has a distinctive odor.

Syrup: Sticky when wet; often identifiable by odor.

Tea: Similar to coffee, but more tenacious.

THE SHIRT DEPARTMENT

Shirt Laundering

What other cleaners have found out about the shirt laundering and finishing sideline:

1. Shirts are a permanent item of wearing apparel and require almost constant maintenance the year round.
2. Shirt tailoring is fairly well stabilized and permits finishing on standard equipment.
3. Cotton sport shirts which would otherwise be wet-cleaned or drycleaned are handled quickly by the shirt department.
4. Shirt customers are inclined to bring other garments, thus stimulating drycleaning sales and tending to level peaks and lows throughout the year.
5. The shirt sideline is profitable in itself. Profits of 20 to 25 percent before taxes are not unusual.

Is your present location suited for shirt laundering?

Chances of success are greater:

In cities than in rural areas

Among white collar workers than among the laboring class

Among the upper and middle-income groups than low-income

Among native-born families than among foreign-born

How many shirts do you need to reach the break-even point?

For the very smallest complete shirt laundry (three operators) a minimum of approximately 1,000 shirts per week at 20 cents each is thought to be necessary in a high-cost area to reach the break-even point after checking off depreciation.

You can estimate your potential volume by simply asking your current customers if they would welcome such a service. Or, for a quick estimate, figure that each adult male in your market area has about four shirts which will need laundering each week. Not a few cleaners got into the laundering end of the business after first having shirts "farmed out." This provides a highly accurate count.

How much floor space do you need?

Many cleaners simply don't have enough room to add a shirt sideline. A complete, three-girl laundry will require about 175 square feet of floor space.

What equipment is necessary?

Basically, a washer, an extractor and a finishing unit. Racks, bins, tables and damp boxes can either be built or purchased as desired. Optional equipment may include a starch cooker (big enough to hold a half-day supply of starch), button sewer, marking equipment and a "conditioning" tumbler.

Examples: Two typical package shirt laundries on the market; each said to be able to produce 2,000-2,400 finished shirts per week:

Unit A includes 20-lb. (dry-weight capacity) washwheel, 15-inch extractor.

Unit B includes 25-lb. washwheel, 20-inch extractor, 2-girl finishing unit.

In purchasing equipment you should consider:

How much the unit can produce,

Quality of work produced,

How much room unit will take,

How it will fit into possible later plant expansion program,

Ease of operation.

One rule of thumb is to equip a plant with machinery of sufficient size to handle volume during a peak day, which is often about 25 percent above average.

Other considerations:

Additional equipment and machinery will create additional demands on your power and water supply and may necessitate additional or larger equipment.

For example, a three-operator laundry and shirt finishing department requires:

Steam: About 7 b. hp. at 100 lbs. pressure.

Compressed air: 1½ to 2 hp. air compressor or 6-6½ cubic feet of free air per minute at 70 lbs. per square inch.

Hot water: Should be available at the rate of 90 gallons per hour over a ¾-inch pipe. Where hot water is not provided, a hot-water heater with a capacity of 150 gallons per hour at 180° F is recommended.

Water-softening equipment: May be required in some localities.

How much will it cost?

Most price lists are given as F.O.B. which means delivery cost must be added. Installation charges generally run an extra 15-20 percent of equipment and machinery costs.

Conservatively speaking, the cleaner who expects to handle 1,500-2,000 shirts per week should expect to invest an estimated \$8,000 to \$11,000 on his new shirt laundry and finishing equipment.

Open-End Washers

Manufacturers' rated capacities in dry pounds of clothes

Diam. of Wheel	Length or Depth of Wheel											
	13"	14"	15"	16"	18"	20"	22"	24"	25"	26"	28"	32"
20"	15	..	..	..	..	..	..
22"	25	..	..	..	..
27"	20	..	..	..	..	..	..	..	..	..
28"	18	..	..	25	..	..	..	..	..	..	..	..
30"	..	25	30	..	35	..	..	..	..	50	55	60
32"	50	..	..	..	..
34"	60	..	..	..	..
36"	35	50	..	60	60	75	..	..	..
42"	100	..	100	..	..

The open-end washers seems to be the most popular type used in small shirt laundries, probably because they come in smaller sizes than the side-loading variety.

In making a purchase consider the following:

Ease of loading and unloading,

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Rapidity of filling and dumping,

Amount of labor needed to maintain operation.

In deciding upon the capacity required, remember that one dry shirt weighs about $\frac{1}{2}$ -pound. A washer with a dry-weight capacity of 25 lbs. will hold approximately 50 shirts.

Extractors

Diameter	* R.P.M.	* * Dry Load Pounds
15"	1600-1750	10
17"	1500-1700	12-18
20"	1300-1650	25-30
26"	1200-1600	40-55
28"	1100-1400	60-70
30"	1000-1320	70-80

* Approximate—R.P.M. of similar size extractors of different manufacturers vary.

* * Manufacturer's rated capacity.

Generally speaking, the smaller the diameter of the basket the greater the number of revolutions per minute and the faster the extracting cycle. An efficient extractor should remove roughly 70 percent of the water in a load. You can check this by weighing the load before and after extraction. When the amount of moisture retained in the load reaches 50 percent of the load's dry weight, it is no longer economically feasible to continue the extracting operation.

TYPICAL FINISHING UNITS

	Cuff	Collar	Yoke	Body	Basin	Gusset	2-lay sleeve	Cabinet sleeve	Sleeve form	Production (40-hr. wk.) Mfg's rating	Floor Space (sq. ft.)
2-girl 3-press	■	■	■	■	■	■			✓	2000-2600	115
	■	■	■	■	■	■	■			2000-2400	100
2-girl 4-press	■	■	■	■	■	■				2000-2400	130
3-girl 4-press	■	■	■	■	■	■			✓	3000-3600	145
	■	■	■	■	■	■	■			4800-6000*	205
3-girl 6-press	■	■	■	■	■	■	■	■		4800-5200	155
	■	■	■	■	■	■	■	■		4000-4800*	155
4-girl 5-press	■	■	■	■	■	■	■	■	✓	4800-5600	160

* with automatic folder

BLOCKS INDICATE presses and their function in each unit. Innumerable combinations can be made by either adding or subtracting operators or equipment. For example: The first 2-girl three-press unit can readily be converted to a four-press unit by adding either a two-lay sleeve press or a one-lay sleeve cabinet

As minimum equipment some manufacturers recommend the 2-girl unit with either three or four presses. This unit can be operated by one girl until the volume gets up around 800-1,000 shirts per week. Then another girl can be added to bring the unit up to full strength and peak production.

The Washing Formula

The washing formula is nothing more than a set of operations to be followed in washing garments of a certain classi-

fication. There are as many formulas as there are classifications. Each operation is a separate bath and each has a specific name. The formula indicates the operating conditions and supplies needed for each bath.

It is impractical to give one washing formula which can be used under all conditions in every plant. Your soap supplier is the person best equipped to recommend the formulas best suited for your operation.

The Break: The "break" or first bath serves to wet out the clothes. It is one of the most important operations in the washing formula. When properly executed, the break loosens and suspends up to 96 percent of the soil present in the load. Only about half of this soil is removed when the bath is dumped, for garments absorb a good portion of the water. The water level used at this stage is sometimes run a little higher than in the suds bath since there is more soil to remove.

Recommended Washing Temperatures

Whites	140°-160° F
Lights & fast colors	140°-150° F
Fugitives, silks, rayons & wool	90°-100° F

Running time on breaks runs from 5 to 10 minutes for side-loading washers, while 2-minute runs are deemed minimum for the open-end type washers.

Suds: The purpose of the suds baths is to dilute and suspend the soil which has already been loosened but which still remains in the load after the break. It also serves to dislodge the more stubborn soils remaining in the fabric. Soap is the ideal agent for this operation.

Running times for this bath should not exceed 10 minutes, for tests have proved that most of the dirt in a load is placed in suspension in less than 5 minutes. The length of the sudsing (or for that matter, rinsing) cycle is not as important as the number, where washing efficiency is concerned. Two 5-minute suds are more effective than one 10-minute suds.

Bleach is added in the final suds operation to remove stains. Bleach does not clean clothes—it whitens them. It is useless for covering up grayness from redeposition of soil, soap or alkali.

Overbleaching is hard on clothes since it reduces tensile strength of fabrics. Under normal conditions, it is generally agreed that one quart of 1 percent bleach per 50 pounds of clothes is the correct amount to use. Bleach should never be used without soap in the wheel. Soap slows down the bleaching action until the bleach has permeated the load.

Rinsing: Rinses are employed to remove soap, alkali and, of course, any remaining soil suspended in the load. Improper rinsing may result in yellowing of the fabric, gray work, soap specks, sticking of the shirts to the press bucks, etc.

Under normal circumstances a 1-to-2-minute rinse is long enough for a rinse bath in a 25-pound washwheel. The number of rinses will depend on the amount of soil in the load. Rinsing is considered sufficient when the total alkalinity is equal to or not more than twice the titration of tap water where there is a high bicarbonate content.

Souring: The souring operation is used to neutralize any alkalinity not removed by rinsing. If the souring operation is omitted, particularly on starched work, the garments may become yellow when ironed.

Sours in common use are either acid salts or weak acids. The sour operation should be run at least 2 minutes and preferably 3 minutes at a level lower than that used for the suds. Cold water is ordinarily used. Do not rinse after the sour bath.

Blueing: The main reason for using blue is to counteract the tendency of cottons to turn yellow from age and the accumulation of impurities. There are three types of blues used in laundering: (a) sour blue, (b) combination blue and (c) non-sour blue.

Sour blue is used in the sour bath or in a following bath that is on the acid side of the pH scale. It may be added to the wheel before souring but for proper color development sour should be included in the same bath. If this method is used thorough rinsing must precede blueing, otherwise ironing will bring out a pinkish hue in the fabric.

Combination blue is designed for use in either a sour or alkaline bath and gives a blue tint.

Least often used in the laundry is the non-sour blue, since modern plants do use sour. This type gives the fabrics a green-blue tint.

In order to obtain even blueing a high level of cold water should be used. The normal running time is about 3 minutes and the amount used depends upon individual preference. The blue solution should be added as the cylinder revolves toward the operator to assure even dispersal throughout the load.

Problem	Probable Cause
"Pinholes" in fabrics	Introduction of live steam into water in washwheel during the bleaching operation. Bleaching should be carried out at temperatures between 140° and 160° F. Increasing temperatures beyond this range increases tensile-strength loss.
Dirty buttons	Sudden changes in temperature of rinse baths. The first rinse should be the same as or slightly higher than that of the last suds. If lower temperatures are used, there may be deposition of dirt on buttons, which cool more rapidly than the rest of the load. Temperature of succeeding rinses may be reduced but sudden changes should be avoided.
Uneven blueing	May result from overloading nets and/or washer; uneven souring; insufficient running time; using too great a concentration of blue and/or adding it to the load incorrectly.
Setting of blood stains	Too high a temperature on the break. When dealing with blood-stained garments keep the break temperature below 100° F.
Soap specks and "tattletale gray"	Redeposition of soil on the load resulting from use of hard water; washing excessively soiled clothes which cause soap to break down; or insufficient rinsing.
"Falling" suds	Excessive soil; improperly built soap; laundering in hard water, etc. Falling indicates improper cleaning. A good suds will "stand" on water surface for at least 5 minutes.
Starch turns brown	The color change occurs during the finishing operation and is often caused by excessive alkalinity of the water used in cooking starch. The higher the alkalinity of the solution, the greater the density of the starch and the more apt it is to congeal. On being heated, congealed starch will turn yellow or brown. A small amount of a safe sour may be added to each batch to remedy this condition.

Problem

Sticking starch

Starch blisters

Probable Cause

When starch accumulations form on press heads and cover cloths, improper cooking is nearly always the fault. Be sure to boil starch for at least 20 minutes. Always begin the process using warm, not hot, water. Sticking of starchwork may also be caused by insufficient rinsing and/or excessive souring.

When starch is overcooked it becomes thin and weak; if used in this condition it tends to blister and buckle. Follow the manufacturer's cooking directions carefully. Blisters are also apt to appear on collars if the collar press operator fails to allow sufficient time for drying or if the bosom press operator accidentally sprays the finished part of the shirt while spraying the bosom.

Test for Water Hardness

To perform, standard soap test solution can be obtained from water-softening supply house.

Add 3 drops of solution to 40 cc. of the water to be tested. Shake well. If water is soft, lasting suds will be formed. (About 5 minutes is considered "lasting.") If not, add another 5 drops of soap solution; shake again. If lasting suds now form, approximately 1-grain hardness is indicated. An additional grain of hardness is indicated by every additional 5 drops needed to form lasting suds. When 38 drops are needed to form lasting suds, hardness of approximately 7 grains is indicated.

Note: If both magnesium and calcium hardness are present in water, calcium is precipitated first and suds may be formed; however, the magnesium will then begin to act on the soap, breaking the suds down again.

Conversion Ratios

- 1 gallon of water weighs 8.34 pounds.
- 1 gallon of water contains 231 cubic inches.
- 1 cubic foot of water equals 7.5 gallons.
- 1 cubic foot of water weighs 62.5 pounds.
- 1 horsepower equals 746 watts.
- 1 boiler horsepower equals 34.6 pounds of water evaporated per hour from and at 212° Fahrenheit.

	Multiplied by	Equals
Diameter of circle	3.1416	Circumference of circle
Diameter of circle squared	.7854	Area of circle
Gallons of water	.1377	Cubic feet
Cubic feet of water	62.5	Pounds of water
Gallons of water	8.34	Pounds of water
Feet head of water	.433	Pounds of pressure
Pounds pressure of water	2.31	Feet head
Feet head	.52	Pounds of pressure
(brine sp. gr. 1.21)		
Boiler horsepower	.069	Gallons feed water required per minute
Pounds pressure (brine)	1.92	Feet head
Feet head	.325	Pounds pressure
(gasoline sp. gr. 0.75)		
Pounds pressure (gasoline)	3.08	Feet head
Inches vacuum	1.132	Feet head
Feet suction lift	.882	Inches vacuum

To convert degrees Fahrenheit to degrees Centigrade, subtract 32 degrees and multiply by five-ninths.

To convert Centigrade to Fahrenheit, multiply by nine-fifths, add 32 degrees.

FABRICS

Burning Tests for Natural Fibers

Cotton:	Burns quickly, yellow flame, smolders Ash—gray, fluffy, floats off Odor—burning wood or paper
Linen:	Burns rapidly but less rapidly than cotton, smolders longer Ash—gray, very light and fluffy Odor—burning wood or paper
Silk:	Small flame, sizzles, burns more rapidly than wool, does not smolder

Ash—shiny black beads, readily pulverized
Odor—burning feathers

Silk, weighted: Burns slowly in flame, not after flame is removed
Ash—skeleton of weighting glows
Odor—burning feathers

Wool: Burns slowly, sputters
Ash—black, gritty, pulverizes easily
Odor—burning hair

SYNTHETIC FIBERS

CHARACTERISTICS

	COMPOSITION	MANUFACTURERS	END PRODUCTS	BURNING TESTS	SOLVENT TESTS
Acrylic fibers	ACRILAN Coal, limestone, petroleum, natural gas, water and air	The Chemstrand Corp.	Suits, dresses, socks, play-suits, sport shirts, infants' wear, blankets and furlike linings for coats	Melts and burns, leaving hard black bead	Not affected
	DYNEL Natural gas, air, salt, water and limestone	Union Carbide & Carbon Corp.	Suits, dresses, socks, underwear, blankets and pile fabrics	Will not support combustion; but shrinks, hardens and becomes brittle	Dissolves in 100% acetone, but not as rapidly as acetate. Gets tacky in seconds
	ORLON Coal, limestone, petroleum, natural gas, water and air	Du Pont Co.	Overcoats, suits, dresses, sweaters, shirts, blouses, socks, curtains and drapes	Melts and burns, leaving hard black bead	Not affected
Polyester	DACRON Petroleum, natural gas, air and water	Du Pont Co.	Suits, dresses, ties, shirts, sweaters, socks and upholstery	Melts and burns, leaving light-color bead	Not affected
Polyamide	NYLON Coal, air, water, petroleum, corn-cobs, cottonseed hulls and natural gas	Du Pont Co. The Chemstrand Corp. Allied Chemical & Dye Corp. American Enka Corp.	Hosiery, lingerie, sport clothes, socks, dresses, suits, curtains, sweaters, drapes, upholstery	Melts and burns, leaving light-color ash	Dissolves in concentrated formic acid and xylene
Vinyl	SARAN VELON Petroleum and salt	The Saran Yarns Co. Dow Chemical Co. Firestone Tire and Rubber Co.	Carpets, draperies, curtains and upholstery fabrics	Melts, does not burn, leaves dark bead	
Mineral	FIBER GLASS Sand, lime, borax and clay	Owens-Corning Fiberglas Corp. Pittsburgh Plate Glass Libbey-Owens-Ford Glass Glass Fibers, Inc.	Curtains, draperies, shower curtains and casement cloths	Forms molten bead which can be pulled from fabric. Bead in flame becomes red hot	Rust remover will dissolve it
Protein	VICARA Corn	Virginia Carolina Chemical Corp.	Overcoats, suits, dresses, sport shirts, sweaters, scarves, socks, underclothes and blankets	Glistening black brittle ash like wool. Smells like wool, too	

Recommended Finishing Ranges

Fiber	Temperature
Glass	550-600° F
Linen	450-500° F
Cotton	400-420° F
Wool	350-370° F
Silk	Silk setting 320-340° F
Vicara	
Acetate	Rayon setting 280-300° F
Acrilan	
Dacron	
Nylon	
Orlon	
Rayon	

Fiber

Dynel	(Finish on gridhead press)
Vinyon	
Permalon	
Saran	
Velon	CANNOT be finished

Temperature

Under 250° F

Steam-Line Sizes

Number of Presses	Size Steam Line
1-2	1/2 inch
3-4	3/4 inch
5-6	1 inch
6-10	1 1/4 inches
10-14	1 1/2 inches
14-25	2 inches

Sources—National Institute of Drycleaning
Textile World

SYNTHETIC FIBERS

METHODS OF HANDLING

MAY BE TREATED AS	SATISFACTORY IRONING TEMP.	DRYCLEANING	WETCLEANING	SPOTTING	FINISHING	
Orlon, Dacron	260° F	Withstands usual drycleaning processes	Withstands usual wetcleaning processes	Not damaged by common spotting solvents	Use hothead press on "acetate" setting to avoid yellowing or shine. Set creases carefully as they are semipermanent	
	Up to 250° F considered safe Softens at 275° F	Withstands usual drycleaning processes. Do not tumble	Withstands usual wetcleaning processes	Dissolves in acetone but this is rarely used in spotting	Avoid stiffening and fusing by pressing on gridhead press, finishing on covered puff irons. Extremely sensitive to heat	Dynel fleece: Do not steam and brush at same time; puff irons. Extremely flattens nap
Acrilan, Dacron	300° F-320° F	Withstands usual drycleaning processes. Do not tumble fleece	Withstands usual wetcleaning processes	Not damaged by common spotting solvents. Behaves like cellulose acetate rayon	Use low rayon setting; avoid prolonged heating. Permanent pleats should be touched up	
Acrilan, Orlon	Acetate setting Melts at 480° F	Withstands usual drycleaning processes	Withstands usual wetcleaning processes. Does not remove pleats	Not damaged by common spotting solvents	Press adjusted for acetates very satisfactory. Crease put in with hot-head press only removed by grid-head press	
Acetate	275° F Melts at about 480° F	Withstands usual drycleaning processes	Withstands usual wetcleaning processes	Not damaged by common spotting solvents	Finish on "acetate" setting using reduced steam pressure, or mechanical pressure	
	Will not stand 212° F Softening point 240° F-280° F	Not recommended: Will not stand mechanical action of washer, extractor or tumbler. Caution: material tends to form permanent creases when folded		Can be cleaned with damp cloth or spotted with steam gun	Steaming on press will cause it to shrink excessively. Can't be stretched. Most items will not require finishing	
	Strength begins to decrease at 600° F	Do not dryclean. Does not withstand usual drycleaning processes	Use only minimum mechanical action. Do not wring, extract or tumble	Printed fiber glass may bleed in cleaning solvent	No finishing is required. May be cabiner-dried	
Wool	350° F Softens at 450° F	Withstands usual drycleaning processes	Withstands usual wetcleaning processes	Reacts somewhat like wool. Wet solvents work better than dry solvents	No unusual problems. Fabrics with which it is blended will determine finishing temperature	

THE FUR DEPARTMENT

Fur Conditioning

Precleaning

All coats accepted for fur cleaning should be closely inspected for rips, tears, and fragile or worn pelts. Any torn or worn seams should be repaired at this point of the operation. Take out any loose linings to prevent the cleaning compound from working under them. Moth damage, shedding or cracked hairs, and fugitive dyes (such as are sometimes found on blue and platinum fox) must be reckoned with during this first operation.

After inspection, each coat should be beaten and shaken to remove loose dust and hair, moths and larvae, as well as to fluff up the matted hair. This operation economizes on the cleaning compound because there is less loose dirt left in the coat for it to absorb, and also cuts down drumming time. Beating may be quickly accomplished in a vibrating chamber.

Sponge the lining of the garment with a cleaning solvent. This solvent must have properties that remove dirt, grease and most ordinary spots. Pour one pint into a shallow pan, then apply to the lining and rub vigorously with a sponge or brush. Where you have a concentration of dirt, wet down generously with solvent and then use a brush to work this dirt loose. About 3 or 4 percent of all linings are badly soiled and will have to be removed and drycleaned.

Drumming and Caging

Put 1 to 5 pounds of absorbent into the drum for each coat to be cleaned. Also add 1 pint of cleaning solvent and

½ pint of water-base cleaning fluid for each coat. Absorbent materials and cleaning fluids should be completely mixed before coats are put in drum. Place coats in drum and revolve for approximately one-half hour. This time may vary, depending on the coat's fragility.

After drumming, garments are placed in the cage and tumbled an average of 45 minutes. Next, the garments are placed in the suction chamber of the vibrating table to remove any excess absorbent material. Each garment is then placed on a work table and both the lining and fur are blown with compressed air. If cleaning material has worked under the lining, open the seams and blow it out, but to avoid excess labor keep seam ripping to a minimum. Use a mechanical beater in conjunction with compressed air to remove lint from curly fur such as Persian lamb.

Glazing

Fur glazing is to fur cleaning what pressing is to drycleaning. A fur garment may be cleaned thoroughly, yet will not look well until it has been glazed. Glazing may be accomplished either through the use of solutions or through mechanical means. Solutions used include potassium permanganate, Chinese elm bark soakings, alcohol, plain water, etc.

In recent years steam irons, steam guns and rotary irons have become popular for this purpose, and usually do an excellent job with minimum labor. The method used, of course, must be suited to the particular fur being glazed. The steam-iron method is limited to certain types, such as muskrat, mink and coney. Beaver or mouton types and curly furs should not be steamed. The rotary iron is a grooved, revolving, heated iron which, when properly applied to fur,

Fur Cleaning Classification

Fur	Drumming Time	Caging Time
WATER RODENTS		
Beaver	1 hour	1 hour
Nutria	1 hour	1 hour
Muskrat	30 to 40 minutes	15 to 20 minutes
LAND RODENTS		
Rabbit		
Marmot	30 to 45 minutes	30 to 45 minutes
THE CAT FAMILY		
Leopard		
Ocelot		
Leopard Cat	30 to 40 minutes	25 to 30 minutes
Lynx		
Civet Cat		
THE DOG FAMILY		
Fox		These furs usually used for scarfs. To prevent breakage of buckles and eyes, do not cage
Wolf	45 to 60 minutes (bagged)	
Coyote		
Chinese Dog		
THE BEAR FAMILY		
Raccoon	1 hour	1 hour
Bear		
POUCHED ANIMALS		
American Opossum	45 minutes	45 minutes
Australian Opossum		

Fur	Drumming Time	Caging Time
THE WEASEL FAMILY		
Mink	30 to 40 minutes	30 to 40 minutes
Kolinsky	30 to 40 minutes	30 to 40 minutes
Fitch	30 to 40 minutes	30 to 40 minutes
Fisher	30 to 40 minutes	30 to 40 minutes
Weasel	30 to 40 minutes	30 to 40 minutes
Otter	45 minutes	30 minutes
Skunk	45 minutes	30 minutes
CURLY FURS		
Lamb		
Persian Lamb	20 to 30 minutes	5 to 10 minutes
HOOFED ANIMALS		
Pony	35 to 45 minutes	35 to 45 minutes
Kidskin	20 to 30 minutes	10 minutes
FUR SEAL		
Black	35 to 45 minutes	35 to 45 minutes
Brown		
DELICATE FURS		
Chinchilla		
Mole		
Squirrel	Hand-clean	Shake out by hand or with a suction work table
Borunduki		

Source—Walter Haertel Co.

will straighten out the hair and produce a high sheen and silkiness.

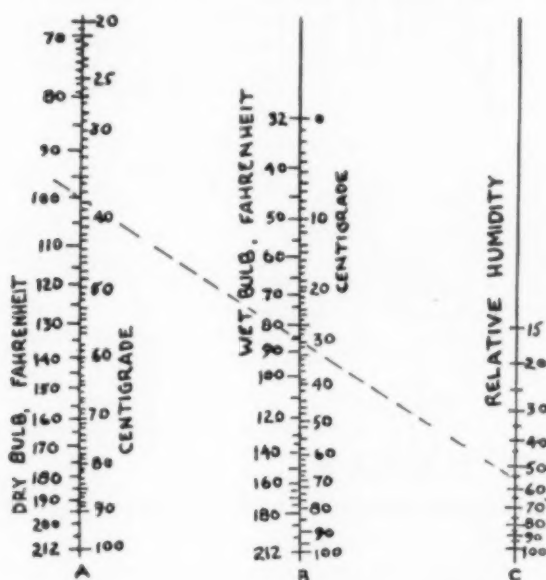
Effects of Excess Humidity

When there is a relative humidity of 65 percent or more in a storage vault, every article in the vault is in danger of being ruined by mildew. Mildew will grow in furs, rugs, and all cloth garments. Humidity of 52-53 percent is plenty for most situations.

It is not generally known that excessive humidity, even if it is not sufficient to cause mildew to grow, can spoil the fit of a fur coat. When humidity reaches a certain maximum, skins become soft and pliable and subject to stretching at the shoulders.

Gauging Relative Humidity

The accompanying chart makes it possible to gauge relative humidity quickly. Run a straight line through the dry bulb temperature, column A, and the wet bulb temperature, column B. The relative humidity is given at the intersection



with column C. Thus, if the dry bulb temperature is 100° F and the wet bulb temperature 85° F, the dotted line drawn across the chart shows that the relative humidity, column C, is 54 percent.

The chart is based on a formula developed by the U. S. Bureau of Standards.

Capacities of Fumigation Cabinets

Inside Area (cubic feet)	Capacity (number fur coats)
141	40
219	70
297	100
375	130
453	160
531	190
639	220
717	250

Glazing Chart

Fur	Rotary Iron	Steam Iron
Beaver	*	...
Civet Cat	*	...
Ermine	...	*
Fitch	*	...
Fox	...	*
Guanaco	*	...
Lamb, Persian, and others
Leopard	*	...
Mink	*	*
Mink, Jap	*	*
Mink, Side	*	*
Mouton Lamb	*	...
Muskat	*	...
Nutria	*	...
Ocelot	*	...
Opussum, American	*	*
Opussum, Australian	*	...
Otter, Plucked	*	...
Persian Paw Lamb
Rabbit	*	*
Raccoon	*	*
Raccoon, Sheared	*	...
Seal, Fur	*	...
Seal, Hair	*	...
Skunk	*	*
Squirrel	*	*
Wolf	*	*
Wolverine	*	*

Source—Walter Haertel Co.

Fur Storage Definitions

HUMIDITY CONTROL is increasingly recognized as one of the most important factors in the successful operation of the fur and woolen garment storage business. Besides moth damage, mold as a damaging element is becoming more important with the growth of the apartment-dwelling population. It calls for accurate and careful humidity control.

If fur garments are kept in an absolutely bone-dry atmosphere they lose some of their natural oils and pliability. They then become vulnerable to breakage and to loss of hair from the pelts. If too much humidity is present, mold damage may completely ruin a garment.

Hence, the subjects of relative humidity, humidity measurements, humidity control, hygroscopic moisture, refrigeration and other phases of scientific storage engineering are important. It is believed that this set of definitions will make a useful contribution to the vocabulary of the industry.

Dew Point: The temperature at which moisture in air will condense if cooled at constant barometric pressure. Air has a capacity to hold moisture which increases with the air temperature and decreases as the air temperature is lowered. If air is cooled to the point where relative humidity reaches 100 percent, the moisture will be given up in the form of condensation. At that temperature, the air has reached dew point.

Example: Air at 70° dry bulb and 65° wet bulb (see below) has a dew point of 62.5° F. If the air is passed over a cooling coil which has its surface maintained at a temperature of below 62.5°, the moisture in the air will be given up as a condensation on the coil (the process of dehumidification or latent cooling).

Relative Humidity: The percentage of the maximum amount of water vapor or moisture which can be absorbed by air at a given temperature. It is determined by a wet bulb depression or can be measured by a direct reading hygrometer. A hygrometer usually employs hair or other material which is sensitive to humidity changes.

Wet Bulb Temperature: Air temperature measured by a thermometer equipped with a wick (on the bulb) which is

saturated with water. When air is passed over the bulb, the thermometer will drop below the dry bulb temperature of the air because of the evaporative cooling effect. The wet bulb reading is taken when the wet bulb thermometer reaches its lowest point. The number of degrees it falls below dry bulb temperature is called "wet bulb depression," which is a measure of relative humidity.

Wet bulb temperature provides a means of determining the latent cooling load or latent cooling effect when used in conjunction with a psychrometric chart. The instrument ordinarily used to take wet bulb reading is a psychrometer.

Example: Air at 70° dry bulb and 60° wet bulb has 56 percent relative humidity and contains 26.5 B.t.u. per pound. At 70° dry bulb and 65° wet bulb, the relative humidity is 77 percent, and total heat contained is 30 B.t.u. per pound.

Refrigeration: May be defined as the process of cooling or removing heat. It is the process by which the temperature of a given space or substance is lowered below that of the atmosphere or surrounding materials. This is accomplished by transferring the heat contained in one substance to another.

Temperature: Heat can be measured and the degree of intensity of heat is termed temperature. The unit of temperature most used in the refrigerating industry is the degree Fahrenheit. The degree Fahrenheit is 1/180 of the difference between the temperature of melting ice and that of water boiling under standard atmospheric pressure.

Hygroscopy: Hygroscopic materials are those that readily absorb and retain moisture. They are generally of vegetable or animal origin. Furs are hygroscopic.

The temperature and relative humidity of air affect the hygroscopic moisture content of these materials and in turn their weight, strength, appearance, quality and ease of working. The control of hygroscopic moisture may be required during storage to permit easy processing and to fix the weight at the time.

Approximate Cost of Vault Equipment



Source—Reliable Fur Storage Equipment Co.,
Division of Reliable Machine Works, Inc.

Moisture Content: The sum of free moisture resulting from hygroscopic moisture absorbed from the atmosphere. It is usually expressed as the percentage of the total weight of garments.

MANAGEMENT NOTES

Effects of Price Changes

THE WHOLE SUBJECT of price is highly controversial, but there can be no argument with the axiom, "Look before you cut."

Neither of the two price charts given here reflects the situation in any specific cleaning plant. The tables have been prepared merely to show the effects of changed prices under certain assumed conditions. In this respect the information is applicable from a theoretical viewpoint to any plant in the country.

Price Chart 1

Most cleaning plants are laid out to produce a certain number of pieces or pounds per week regardless of price charged. The first table reflects the results of reduced prices in a plant equipped to handle 1,000 pieces per week at prices averaging \$1 per piece.

This "base situation" is recorded in the first line. Column A sets up the various assumed piece prices. Column B reads 1,000 pieces all the way through since the plant is operating at full capacity irrespective of retail charges. Column C reveals the plant's reduced income in dollars while Column D

shows identical reductions in percentages. Columns E, F and G point out how reduced prices swell productive labor costs with three different percentages taken as the base.

It is assumed that both quality and wage rates remain stationary. Under these circumstances, if an operator has a productive labor cost of 30 percent at \$1 prices, he pays out 30 cents to produce each piece. Furthermore, he continues to pay 30 cents per piece no matter what he charges the customer. While the actual lump sum in dollars paid out each week is the same in every case, the labor cost mounts percentage-wise in relation to the decreasing cash coming in.

Price Chart 2

Approaching reduced prices from a different viewpoint, the second table shows the possible effects of attempting a uniform dollar volume at lowered prices per piece.

Line one, again, is the base—a plant handling 1,000 pieces per week at an average retail charge of \$1 per piece. Column A establishes the assumed prices. Column B is the same in every case since the table is set up on the assumption that an attempt is being made to maintain weekly income at \$1,000. Column C reports the increasing number of pieces needed to retain the same volume in sales.

Price Chart 1

A	B	C	D	E	F	G
Price per piece	Pieces per week	Sales per week	% Decrease in weekly sales below \$1 prices	If productive payroll is now		
				25%	30%	35%
				At reduced prices productive payroll will become		
\$1.00	1,000	\$1,000	.....	25.0%	30.0%	35.0%
.90	1,000	900	10%	27.7%	33.3%	38.8%
.80	1,000	800	20%	31.2%	37.5%	43.5%
.70	1,000	700	30%	35.7%	42.5%	50.0%
.60	1,000	600	40%	40.6%	50.0%	58.3%
.50	1,000	500	50%	50.0%	60.0%	70.0%

Price Chart 2

A	B	C	D	E	F	G	H	I
Price per piece	Weekly sales in dollars	Pieces per week	Percentage of increase in pieces above 1,000	Man-hours required	If productive payroll is now			Percentage of costs to be allotted to supplies
					25%	30%	35%	
					At reduced prices productive payroll will become			
\$1.00	\$1,000	1,000	.....	300.0	25.0%	30.0%	35.0%	7.0%
.90	1,000	1,112	11.2%	333.6	27.8%	33.3%	38.9%	7.7%
.80	1,000	1,250	25.0%	375.0	31.2%	37.5%	43.7%	8.7%
.70	1,000	1,429	42.9%	428.7	40.7%	42.8%	50.0%	10.0%
.60	1,000	1,667	66.7%	500.0	41.6%	50.0%	58.3%	11.6%
.50	1,000	2,000	100.0%	600.0	50.0%	60.0%	70.0%	14.0%

Column D interprets increased pieces required in terms of percentages. Note that while a drop from \$1 per piece to 80 cents per piece is a cut of only 20 percent in price, the added number of pieces needed is rated at 25 percent. This is explained by the fact that, while additional pieces are being brought in to maintain \$1,000 weekly sales at reduced prices, all of this new business produces 20 cents per piece less than do pieces selling at \$1. Consequently, the percentage necessary in increased orders will always be greater than the actual percentage of the price cut. Finally, as shown in the last line, a 50 percent reduction in price demands a 100 percent rise in the number of pieces.

Column E records the number of man-hours required to produce certain dollar volumes at various piece prices. Columns F, G and H show the effect on the productive payroll.

Column I reports the percentages of costs which must be allotted for supplies to process the heightened piece volume while dollar volume remains fixed. Here, again, it is supposed that quality of the work and wage rates do not fall off with the declining prices.

It is further assumed that the plant produces 1,000 pieces per week at maximum efficiency. Consequently, the increased pieces required can be processed only by hiring new help. In this case, the actual amount paid out to labor climbs while the number of dollars received from the customers remains fixed.

indicates the point at which he must hold his costs. With increasing volume it tells how much his costs may be permitted to increase and still provide him with the same number of dollars at the end of the year.

Percentage increase or decrease in volume	Profit percentage necessary to hold dollar income	
	A	B
150	9.5	4.9
140	10.3	5.2
130	11.1	6.1
120	12.2	6.9
100 starting point	15.0	7.5
90	17.0	8.2
80	19.5	9.5
70	23.0	11.0
60	27.7	13.2
50	35.3	16.3

In this chart two percentages (15 percent and 7½ percent) were selected merely as examples of the effects of volume changes on the profit. If the dollar profit equals 15 percent of the current volume, then Column A shows the decrease in percentage to total volume that this dollar volume represents as the dollar volume increases. Likewise, it shows the increase in percentage of sales represented by this dollar profit when total sales decrease. If the current profit equals 7½ percent of sales, a similar relationship is indicated in Column B.

For those who wish to toy with such figures, here is the formula for estimating percentages of sales necessary to maintain dollar profits:

1. Set down percent of sales at start as decimal..... 0.15
2. Add number 1 (1 plus .15)..... 1.15
3. Multiply by percentage change in volume (10% = .10) .. 0.115
4. Subtract from number 1 (1 - .115) if volume decreased... 0.885
5. Divide into starting percentage (.15 ÷ .885)..... 0.17
or 17 percent profit to be maintained
4. If volume increased, add .115 to number 1..... 1.115
5. Divide into starting percentage (.15 ÷ 1.115)..... 0.122
or 12.2 percent to be maintained

Volume-Profit Relationship

WHAT COUNTS at the end of the year are the actual dollars in your pocket, regardless of what percentage of sales or invested capital they represent. That's what a man has to live on and have fun on. Percentages tell him how efficient his operations are, which only makes him mad.

The table given here shows how profit percentages must change on a fluctuating volume to enable a plantowner to maintain a steady dollar income. If his volume is dropping it

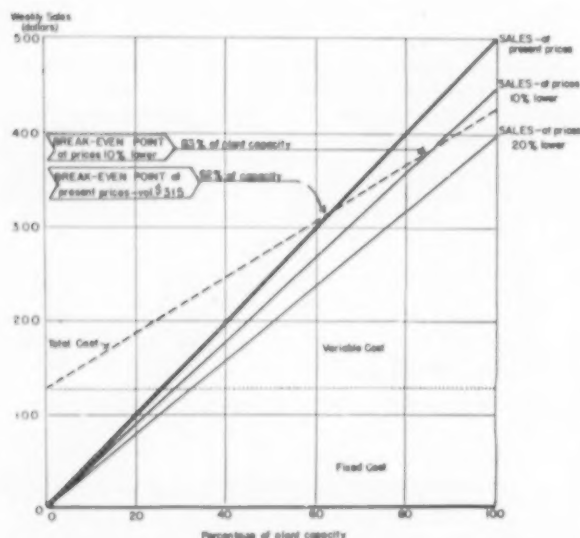
Break-Even Charts

A CUT IN PRICES can be a risky proposition. A break-even chart shows how much additional volume a price reduction must bring in to keep a plant in the black. The sample chart shows that a 10 percent price cut for this small cleaner would require a volume equal to 83 percent of his plant capacity to break even, whereas only 62 percent of capacity was required at the former price level.

To make your own chart you must know:

1. Physical capacity of your plant.
2. Potential sales income at capacity operation.
3. Amount of fixed costs (costs which do not fluctuate with volume, such as rent, insurance, depreciation, taxes, executive, supervisors' and office salaries, etc.).
4. Ratio of variable costs (costs which vary according to volume being processed) to sales income, expressed as a percentage.

Then a chart is ruled off, as shown, with dollar sales on the vertical axis, percentage of plant capacity on the horizontal. At 100 percent capacity the small plant for which the break-even chart is illustrated can handle \$500 weekly. The heavy diagonal sales line drawn from corner to corner makes it possible to translate sales into capacity (or the reverse) at any point on the line.



CUT PRICE CUTS PROFITS according to break-even chart showing effect on profits of 10-percent cut across the board as compared to 20-percent cut. The 20-percent cut pushes the break-even point above plant capacity! Remember "plant capacity" means pounds or pieces plant can handle. If another cost line were drawn from 100 at left and parallel to broken line, it would represent 20 percent reduction in cost, which would be a fantastic achievement. Yet it would intersect the sales line (at 20-percent price reduction) exactly at the edge representing plant capacity, indicating that the plant still would only break even.

Fixed costs amount to \$125, so a dotted line indicating fixed costs was drawn straight across the graph from the \$125 point on the dollar sales axis. Variable costs amount to 60 percent of sales volume, so at 100 percent capacity they would total \$300. Our total cost at full capacity is \$300 plus \$125. The dash line on the chart represents this cost.

The intersection of the total sales line and the dash line is the break-even point, which works out to be \$315 or 62 percent of capacity.

If the operator were to cut prices 10 percent across the

board, the break-even point would move up to \$373.50, or 83 percent of capacity. A 20 percent cut in prices would clearly make it impossible for the plant to break even without increasing capacity or drastically lowering fixed costs.

A good break-even chart will also indicate profits. Profit on the chart is the distance between the total cost and sales lines above the break-even point. If we assume that the plant represented by this chart is doing \$400 a week at present prices, its profit (difference between cost and sales) would be about \$33. If it operated at full capacity with a 10 percent price cut, weekly profit would amount to less than \$20.

Sample Production Standards

PRODUCTION ESTIMATES are essential in deciding how much equipment to purchase and how many people to employ, and in setting up an efficient layout.

The accompanying chart is an average of figures taken from a number of plants. As such the figures should be considered *only as tentative production standards*.

Plant standards vary in terms of quality, type of equipment, layout, level of skilled help, management efficiency and other phases of production. For that reason it is difficult to set a standard of production applicable to all plants. However, management should not hesitate to use the chart as a guide to intelligent production planning.

A good example of the effect equipment has on production can be seen in the drycleaning room estimate. This runs from 60 to 263 pounds. The wide spread, in this case, is due to different capacities of drycleaning rooms.

Another example of wide spreads is in the listing, "jackets, wool, ladies' touch-up." The spread, 30 to 90 pieces, reflects the varying quality standards of different plants. On the one side the touch-up would be taking longer than the steaming, whereas by giving the slightest touch-up possible, one girl can handle volume for two steamers with ease.

OPERATION	ESTIMATED PRODUCTION
Marking	145-150
Marking and invoicing	50-60
Classification	167
Inspection	250
Assembly	120
Bagging and shipping	100
Inspection, assembly, bagging and shipping	28
Drycleaning	60-263
Wetcleaning	15-25
Silk spotting	17-27
Wool spotting	80-110
Free sewing	10-47
Measuring garments	20-34
Stretching dresses	20-25
Stretching trousers	30
Silk pressing, plain dresses	10
Wool pressing, dresses	15
Wool pressing, suits	8
Dresses, silk, plain; steamer, puff irons, press	22
Dresses, silk, to 8 pleats; sleeve, puff irons, press	11-13
Dresses, silk, as they come; hand	6
Dresses, as they come	12
Dresses, silk, under 9 pleats; machine	7-12
Dresses, silk, over 8 pleats; machine	4
Dresses, silk; puff iron, press, hand iron	28-32
Dresses, silk, plain, wetcleaned; hand	6
Dresses, silk, fancy, wetcleaned; hand	4
Dresses, silk, sunburst	4
Dresses, silk, children's plain or fancy	9-11
Evening and dinner gowns, plain, silk	2-7
Evening gowns and wedding dresses, fancy, silk	1-4
Dresses, wool, plain or pleated; machine	21
Dresses, wool, plain or pleated; steamer, utility	21

OPERATION	ESTIMATED PRODUCTION
Dresses, wool, under 9 pleats; hand	11-17
Dresses, wool, over 8 pleats; hand	7
Skirts, silk, to 8 pleats; machine	17-33
Skirts, silk, over 8 pleats; machine	11-13
Skirts, silk, plain; machine	33-40
Skirts, silk, to 18 pleats	20
Skirts, silk, 18 pleats or sunburst	3-6
Skirts, wool, to 8 pleats	20
Skirts, wool, over 8 pleats	10-12
Blouses, silk, plain	13-25
Blouses, silk, fancy	5-17
Blouses, silk, plain; hand	6-10
Blouses, silk, fancy; hand	4-7
Jackets, silk, plain	25-26
Jackets, silk, fancy	14
Jackets, boleros, silk	15-20
Jackets, silk; hand	8-17
Jackets, wool, ladies'	19-30
Jackets, wool, ladies'; steamer	41-45
Jackets, wool, ladies'; touch-up	30-90
Jackets, canvas	6
Trousers, wool; machine	21
Trousers, wool; topper	30-50
Trousers, wool; legger	36-50
Trousers, wool, drycleaned	17-40
Trousers, wool, wetcleaned	11
Trousers, wool, wetcleaned, top	20-33
Trousers, wool, wetcleaned, leg	33
Slacks, silk, top	20
Slacks, silk, leg	20
Slacks, wool, ladies', top	40
Slacks, wool, ladies', leg	28
Suit coats; steamer, touch-up	17
Suit coats; machine	13-35
Vests	35-100
Top and overcoats; machine	13-36
Top and overcoats; steamer	30-67
Top and overcoats; touch-up	40-67
Raincoats and reversibles	5-20
Shirts, silk	9-17
Shirts, men's sports	12-22
Shirts, silk, ladies'	20
Shirts, long-sleeve; hand	4
Shirts, short-sleeve; hand	6
Shirts, plain	13-20
Shirts, wetcleaned	10
Sweaters	25-46
Scarfs, as they come	33-50
Ties, as they come	56-60
Belts, silk	75-90
Belts, wool	90-100
Robes, quilted	5-6
Robes, plain, and housecoats	11-13
Slips	15-20
Bathrobes, wool	12-20
Hats, caps	50
Sleeves; steamed	40
Mixed wools	20
Snowsuit jackets	20
Snowsuit legging	30
Snowsuits, one-piece	12
Children's knickers, leggings	25-33
Breeches	33
Suit-coat linings; machine	56-100
Suit-coat linings; hand	31-35
Trousers, pockets and seams, wetcleaned	36-50
Vest linings	52-100
Coats, half-lined, wetcleaned	25
Coats, full-lined	18
Jacket linings, ladies'	21
Coat linings, children's, as they come	27
Topcoat linings, men's; hand	27
Coat linings, women's; hand	14-25
Suit-coat linings, women's; hand	30
Coat linings, women's; machine	26
Coat linings; steamer and sleeve	25-26
Jacket sleeve linings, women's	75
Linings, loose	46
Linings; machine	50
Open seams and press pockets	29-32
Uniform, dress, top; hand	9

OPERATION	ESTIMATED PRODUCTION
Uniform, dress, bottom; machine	35
Ski jackets, gabardine, lined	10
Chair gowns	10
Tiebacks	100
Valances	9
Drapes, per panel	16-25
Drapes, unlined	15
Davenport covers	5-7
Chair covers	6-9
Cushion covers	33-45
Bedspreads	10
Curtains, per panel	22-23
Curtains, ruffled	9-10
Tablecloths, lace	10-33
Comforters, blankets	10-33
Scatter rugs, scarfs	33

Wage Incentives

Purposes of Wage Incentives

- To enable workers to earn larger total or "take home" pay.
- To obtain for management sufficiently increased production to maintain or lower *unit costs*.
- To correct wage injustices by keeping wage payments in direct proportion to output—on the principle that "no wages are too high if earned."

Main Obstacles to Installation and Smooth Operation

- Lack of standardization of articles to be processed.
- Dissimilarity of methods among different plants.
- Variety in type and kind of equipment.
- Difficulties of explaining and making clear to employees purposes and rewards of plan.

Essential Preliminaries

- Improvement in plant equipment and methods.
- Efficient layout and workflow.
- Measurement, by time studies or otherwise, of normal output of all types of work after putting equipment and process on improved and standardized basis.
- Job Analysis—the analysis and listing of all tasks included in any specific job.
- Job Evaluation—establishing relative values of different jobs in drycleaning plant.
- Selection of personnel.
- Aptitude testing.
- Training.
- Setting up of organization chart, clearly defining lines of authority and responsibility.
- Preparation, in written form, of standard practices and methods.

Further Details of Preliminaries

- Improvement of methods based on type and grade of service.

Examples: Base price 49 cents—high production standards in finishing and packing.
Modified inspection.
Base price \$1.50—lower production standards.
Rigid inspection to maintain high quality workmanship, finishing, packaging. Greater emphasis on employee selection, individual skills.

Both quality and quantity standards should be clearly defined, put in writing before installation of wage incentive plan.

- Plant layout, workflow, selection and arrangement of equipment. Developed by consideration of owner, manager,

Cost Percentages for the Year 1952

Analysis of Percentage Costs According to Sales Volume

Annual Sales	Under \$25,000	\$25,001 to \$40,000	\$40,001 to \$60,000	\$60,001 to \$80,000	\$80,001 to \$100,000	\$100,001 to \$150,000	\$150,001 to \$300,000	Over \$300,000
No. of Plants Reporting	25	30	27	31	10	28	29	13
Average Base Price	\$1.18	\$1.06	\$1.12	\$1.22	\$1.15	\$1.24	\$1.25	\$1.37
SALES DISTRIBUTION	%	%	%	%	%	%	%	%
Call and Delivery	41.64	35.86	52.85	50.01	47.24	57.91	54.37	52.60
Branch Stores & Agencies	.40	6.40	.57	7.09	8.47	14.39	18.75	37.62
Plant Retail	57.96	55.90	43.54	38.49	41.31	24.56	19.31	8.29
Wholesale Work	—	1.84	3.04	4.41	2.98	3.14	7.57	1.49
TOTAL SALES	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
PRODUCTIVE EXPENSE								
Productive Labor & Outside Work	29.94	35.30	37.44	36.94	37.51	34.01	32.11	30.68
Productive Supplies	10.10	8.45	9.70	8.05	8.52	8.31	7.71	8.28
Power Plant	5.93	5.84	4.18	4.54	3.28	3.60	3.59	2.87
Building Overhead	5.53	4.44	4.30	3.02	3.58	2.64	3.14	2.56
Machinery Overhead	7.05	5.66	4.93	4.38	4.44	3.29	3.75	4.09
Indirect Overhead	1.58	2.47	3.44	5.44	3.39	5.17	6.47	7.01
TOTAL PRODUCTIVE EXP.	60.13	62.16	63.99	62.37	60.72	57.02	56.77	55.49
SALES & DISTRIBUTION EXP.								
Delivery:								
Wages & Commissions	3.57	5.01	8.16	7.72	9.86	11.08	11.84	12.61
Equipment Exp.	2.80	3.92	3.92	3.72	4.04	3.95	4.67	4.04
Store Salaries & Exp.	.05	1.65	.91	2.65	2.23	4.44	4.46	7.34
Sales Promotion Exp.	2.33	2.65	3.49	3.13	3.79	3.34	3.72	2.98
Claim Adjustments	.20	.17	.27	.37	.49	.53	.53	.69
TOTAL SALES & DIST. EXP.	8.95	13.40	16.75	17.59	20.41	23.34	25.22	27.66
OFFICE & ADMINISTRATIVE								
Office Salaries & Exp.	2.21	3.93	3.62	4.15	3.52	5.21	5.10	5.37
Other Exp.	1.60	1.70	1.65	1.90	2.36	2.57	2.46	2.27
Executive Salaries	1.10	5.19	2.68	5.12	7.27	4.75	4.86	3.67
TOTAL OFFICE & ADM.	4.91	10.82	7.95	11.17	13.15	12.53	12.42	11.31
Total Expense	73.99	86.38	88.69	91.13	94.28	92.89	94.41	94.46
Net Profit Before Taxes	26.01	13.62	11.31	8.87	5.72	7.11	5.59	5.54

Source—National Institute of Drycleaning

superintendent and skilled engineers either from inside plant or outside specialists.

An integral and vital part of the installation of an incentive plant is the work which the plantowner and his supervisors and engineers do to make every motion of every employee easier.

Examples: Shorten distance from which presser must reach for work and extend arm to hang finished garment on line. If press head suddenly tightens up, extra foot-pound of pressure required to bring it down mounts up to tons of extra effort if repeated all day long.

Five-foot girl who must hang garments on rack made for five-foot-six employee has exerted hundreds of foot-pounds of additional lift at end of day. Prompt provision of platform on which bagger or assembler may work will increase output, prevent dissatisfaction.

If each task and motion is made easier, it is possible to improve quality while greatly increasing speed of production.

C. Time studies, or measurement of output at normal speed, made with quality standards already established in mind.

D. Job Analysis. Prepared with cooperation of supervisors and workers.

E. Job Evaluation. Preparation with cooperation of supervisors and workers. Essential for establishment of basic wage rates.

Based on (1) Physical qualifications and working conditions.

(2) Mental qualifications and education.

(3) Specific job skill and related experience.

(4) Responsibilities and personality traits.

Example: Janitor—in many plants most important of non-executive workers, with possible exception of spotters and silk finishers. Greater responsibilities, broader variety of duties than assembler. On other hand, assembler requires clerical ability, more accurate recognition of figures, letters and handwriting than janitor. Wool presser might be illiterate—need only count own output. But janitor must read and understand notes left for him by plant manager, superintendent and others.

F. and G. Aptitude testing necessitated by failure of many employees to recognize own natural abilities.

Examples: Employee who cannot remember four-digit number for one minute unsuited to assembling.

Employee inaccurate in counting and recording numbers, figures and classifications unfitted for the job of marker. Articulate, persuasive, intelligent, sensitive employee unhappy and possibly promoter of discontent on repetitive job; on sales force or otherwise dealing with public may be of great value to employer and personally contented.

H. Training supplemented by definite upgrading program. Most employees work more contentedly and with

Sectional Analysis of Percentage Costs for the Year 1952

Section	I New England	II Middle Atlantic	III East North Central	IV West North Central	V South Atlantic	VI East South Central	VII West South Central	VIII Mountain	IX Pacific	Average
No. of Plants Reporting	22	27	35	37	25	13	22	13	25	219
Average Base Price	\$1.17	\$1.29	\$1.25	\$1.17	\$.94	\$1.08	\$1.01	\$1.27	\$1.38	\$1.18
SALES DISTRIBUTION	%	%	%	%	%	%	%	%	%	%
Call and Delivery	65.70	57.53	54.95	48.88	51.47	25.47	64.84	57.38	51.04	52.78
Branch Stores & Agencies	4.56	24.65	23.89	16.37	16.07	59.15	—	3.18	8.13	20.02
Plant Retail	25.75	11.18	19.20	33.23	26.43	15.23	35.16	37.36	34.08	23.19
Wholesale Work	3.99	6.64	1.96	1.52	6.03	.15	—	2.08	6.75	4.01
TOTAL SALES	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
PRODUCTIVE EXPENSE										
Productive Labor & Outside Work	36.34	32.24	34.37	32.76	30.79	30.96	31.06	39.32	36.46	33.62
Productive Supplies	8.27	7.37	8.09	8.37	10.30	9.55	9.40	7.04	6.93	8.34
Power Plant	4.75	3.89	4.08	4.22	4.28	3.20	2.89	3.23	2.93	3.82
Building Overhead	2.86	3.16	2.88	3.10	3.69	2.11	3.00	3.59	3.08	3.07
Machinery Overhead	3.58	3.23	3.23	4.31	4.58	5.37	5.27	4.21	4.17	4.10
Indirect Overhead	6.66	5.93	5.21	5.04	5.40	6.23	6.77	3.91	6.16	5.69
TOTAL PRODUCTIVE EXP.	62.46	55.82	57.86	57.80	59.04	57.42	58.39	61.30	59.73	58.64
SALES & DISTRIBUTION EXP.										
Delivery:										
Wages & Commissions	9.76	13.65	9.64	8.75	9.05	11.03	9.98	7.66	11.01	10.08
Equipment Exp.	4.23	4.62	4.33	3.80	4.47	4.35	3.76	4.16	4.38	4.23
Store Salaries & Exp.	6.21	4.70	4.77	4.55	3.93	7.95	2.87	1.26	2.73	4.32
Sales Promotion Exp.	2.62	2.64	4.02	4.55	2.97	2.53	2.90	3.07	3.19	3.33
Claim Adjustments	.49	.50	.54	.39	.52	.74	.75	.37	.43	.51
TOTAL SALES & DIST. EXP.	23.31	26.11	23.30	22.04	20.94	26.60	20.26	16.52	21.74	22.47
OFFICE & ADMINISTRATIVE										
Office Salaries & Exp.	4.74	5.55	4.88	4.09	3.84	4.77	5.08	4.56	4.35	4.64
Other Exp.	2.43	2.24	2.35	2.89	2.25	2.14	1.65	1.82	2.64	2.34
Executive Salaries	3.46	5.03	4.59	4.47	6.85	3.17	5.48	1.89	2.51	4.37
TOTAL OFFICE & ADM.	10.63	12.82	11.82	11.45	12.94	10.08	12.21	8.27	9.50	11.35
Total Expense	96.40	94.75	92.98	91.29	92.92	94.10	90.86	86.09	90.97	92.46
Net Profit Before Taxes	3.60	5.25	7.02	8.71	7.08	5.90	9.14	13.91	9.03	7.54

Source—National Institute of Drycleaning

Section I: New England—Conn., Maine, Mass., N. H., R. I., Vt.
 Section II: Middle Atlantic—N. J., N. Y., Pa.
 Section III: East North Central—Ill., Ind., Mich., Ohio, Wis.
 Section IV: West North Central—Iowa, Kans., Minn., Mo., Neb., N. D., S. D.
 Section V: South Atlantic—Del., D. C., Fla., Ga., Md., N. C., S. C., Va., W. Va.

Section VI: East South Central—Ala., Ky., Miss., Tenn.
 Section VII: West South Central—Ark., La., Okla., Texas
 Section VIII: Mountain—Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo.
 Section IX: Pacific—Cal., Ore., Wash.

better results if entire organization operates on principle of promoting capable people as rapidly as possible.

Establishment of Rates Under Wage Incentive Plan

1. Base wage rate based on established normal output—basic task which employer has right to expect and which employee has duty to perform.

Base rate usually paid if employee regularly averages 75, 80 or 85 percent of normal output.

2. Bonus, in addition to base wage rate, for production in excess of basic performance rate.

a. Payment of graduated bonus, beginning with small bonus when about 85 percent of standard is reached, bonus rate increasing until it reaches top limit of production.

Example: If wool pressers can easily press 10 suits per hour, that becomes basic performance rate. Most plans would begin to pay small bonus at about 8½ suits per hour, with bonus rate increasing as production goes above 10 per hour until it reaches top production rate at which drycleaner may safely operate without deterioration of quality.

b. Controversial alternative—proportionate payments per unit of production all the way through incentive setup.

Example: If presser receives 60 cents per hour and his task or performance rate is 10 suits per hour, labor cost is 6 cents per suit. But if by installation of new and better equipment, presser is enabled to turn out 15 suits per hour of equivalent quality and with no more physical exertion, plantowner-investor should have reward for providing those facilities.

Arguments in such cases can usually be resolved to satisfaction of all parties by employment of outside industrial engineer with good reputation in field.

3. Establishment of production limit to protect standards of quality.

4. Merit rating. Differences in basic rate based on employee's day-to-day performance, attendance, cooperativeness or general attitude, and other pertinent factors, tangible and intangible. Records to be kept on form obtainable from any industrial engineering firm. Periodic review at regular intervals.
(Continued on page 116)

(Continued from page 115)

Administration of Wage Incentive Plan

1. Record keeping. Complete facilities essential for recording of employee output.

a. Frequent recording of individual production—at least once per hour; many plants record production every half hour.

b. Accessibility. Records easily seen and checked by employee.

2. Supervision. Operation of plan places much greater burden on supervisors. Supervision must be constant, tactful, firm, alert for improvement of working conditions and equipment.

The secret of successful wage incentive plan operation is constant vigilance.

Benefits of Wage Incentive System

Most employees, especially on repetitive jobs, work at about 66 percent of their actual capacity. If they are brought up to 100 percent of their own abilities, and if they and their employers benefit proportionately, this will amount to a 50 percent increase in output.

The difference between drycleaning plants and the neighborhood press shops or tailor shops consists in the utilization of machines by the plantowner. Therefore, under the wage incentive system the drycleaning plant operator gets an extra benefit from the fact that his machines as well as his employees are used at more nearly their standards of capacity.

Actually, however, when bonuses are paid for extra production and these bonuses are graduated to pay slightly more per unit above 100 percent, the result from the better employees is usually an output approximately 120 percent of capacity. On such a regular premium production, the employee can often increase his earnings by 25 percent or more.

The whole purpose of the wage incentive plan is to encourage and pay the employee for working steadily at his or her best (yet comfortable) rate of work. In fact, the chief reward to the plantowner in the establishment of wage incentives is to obtain a standard hour's production from his employees each hour of the day. If that aim only is achieved, it is well worth all of the expense, paper work and supervision required.

Initial Supplies

THE FOLLOWING LIST represents the minimum initial supplies required by the new drycleaner who is opening his own plant. Based on the recommendations of one of the country's largest jobbers, quantities are kept low in every case to reduce the original investment.

Cleaning Room

Charged soap	30 gallons
Filter aids (diatomaceous earth and/or sweeteners)	200 pounds
Activated carbon	25 pounds
Filter screen brush	1
14-quart pails	2
Bristle benzene-soap brushes (for prespotting and handbrushing with dry solvent)	2
Soap strength test kit	1
Fatty acid test kit	1

Wetcleaning Supplies

Bristle brushes, approximately 2 by 5 inches	2
Scouring brush	1
Wetcleaning soap	25 pounds

Hydrosulphite of soda	1 pound
Chloroform substitute	1 gallon
Retouching dye pads	1 set
Drycleaning sour	10 pounds

Spotting Aids

Ammonia, 26°	1 gallon
Acetic acid, 28 percent	1 gallon
Glacial acetic acid	1 quart
Oxalic acid crystals	5 pounds
Sodium perborate	5 pounds
Borax	10 pounds
Potassium permanganate	1 pound
Bisulphite of sodium	5 pounds
Standard paint and grease remover	2 gallons
Standard prespotter	2 gallons
Standard ink remover	1 pint
Standard digester	1/2 pound
Standard lipstick and rouge remover	1 pint
Amyl acetate	1 quart
Combination wet and dry spotter	1 gallon
Eye-dropper bottles	6
Spotting brushes, black and white	1 each
Spatulas (bone scraper)	2
Rust remover (in tube or rubber bottle)	1
Hydrogen peroxide (10 vols. 3 percent)	8 ounces
Cheesecloth	10 yards
Chamois	1
Turkish towels	1 dozen
Spray gun (either compressed air or city water pressure)	1

Finishing Department

Press flannels, cut to size	6
Press pads, cut to size	6
Press pad covers	18
Cover springs	6 cards
Spray guns for presses	2
Stapling machine	1
Staples	5,000
Record Book No. 39	1
Standard sales or receipt books	50
Moth spray	1 gallon
Paradichlorobenzene crystals	5 pounds

Packaging Supplies

Hangers	3,000
Garment bags (suit—36 inches)	1,500
Garment bags (dress—54 inches)	1,500
Mothproof bags (suit)	100
Mothproof blanket bags	100
Dress shields (for hangers)	2,000
Trouser guards	3,000
Pins, common	1 pound
Pins, safety No. 1	20 gross
Pins, safety No. 2	5 gross
Pins, safety No. 3	5 gross
Tags	10,000
Dress boxes (light)	200
Suit boxes (heavier)	100
Curtain boards	1 bundle
Necktie envelopes, boards and bands	200 each
Glove bags	1,000
Hat bags	1,000
Tie boxes	200
Cotton twine	10 pounds
Cellophane ribbon	1 roll
Wrapping paper, 30-inch	1 roll
Wrapping paper, 36-inch	1 roll
Gummed tap	2 rolls
Scotch tape	2 rolls
Paper cutter	1
Scotch-tape dispenser	1

After acquiring experience with various brands and types of products, the young drycleaner will be in a better position to gain the benefits of buying in quantity. The supplies listed here are entirely adequate aiming for an early volume of \$300 to \$500 a week.

THE ENGINEERING DEPARTMENT

Boiler Efficiency

THE OPERATOR of the average small plant doesn't have the time or money nor does he even need the skill to run a series of elaborate tests and go through cumbersome tables to check on his boiler efficiency. In fact, using what the engineer calls nomographs or alignment charts* is even more accurate and requires much less involved calculations.

Here are the steps you take:

1. Find dry flue-gas loss for the particular fuel you're using (Figs. 1-5).
2. Get the hydrogen loss either on the weight basis (Fig. 6) or volume (Fig. 7). Hydrogen ranges for the various fuels are given in the table below.

Hydrogen Ranges

(Range of hydrogen percent, pounds of air, and CO₂ percent for zero excess air for typical solid and liquid fuels)

Fuel	Range of per- cent hydrogen	Range of lb. of atmos- pheric air at zero excess air per 10,000 B.t.u.	Range of CO ₂ percent at zero excess air
Anthracite	1.8-2.9	7.81-7.93	19.3-20.0
Semianthracite	3.2-3.4	7.68-7.82	19.1-19.2
Low-volatile bituminous	3.9-4.5	7.62-7.73	18.5-18.8
Medium-volatile bituminous	4.7	7.77	18.5
High-volatile bituminous A	4.6-5.9	7.51-7.73	17.7-18.7
High-volatile bituminous B	4.2-5.0	7.56-7.73	18.0-18.7
High-volatile bituminous C	4.0-4.6	7.54-7.67	18.0-18.7
Subbituminous	3.8	7.56-7.57	19.1-19.2
Lignite	2.8-3.1	7.47-7.52	19.2-19.5
Coke	0.5-3.2	7.63-8.13	19.3-20.7
Softwoods	5.8-7.02	7.05-7.22	18.7-20.4
Hardwoods	6.02-6.93	7.09-7.28	19.5-20.5
Bagasse	5.89-6.56	6.25-6.99	19.4-21.0
60° API, gasoline	14.3	7.46	14.87
45° API, kerosene	14.0	7.42	15.12
30° API, gas oil	12.8	7.45	15.48
15° API fuel oil	11.5	7.58	15.90

Source—Combustion Engineering

3. Find moisture in fuel loss (Fig. 8).
4. Find moisture in air loss (Fig. 9).
5. Find unconsumed carbon in flue gas loss (CO) (Fig. 10).
6. Find unconsumed carbon in refuse loss (ash loss) (Fig. 11).
7. Radiation loss is somewhat difficult to set for small boilers so use 3% at full load; 4.5% at half; 6% at quarter load.

Add steps 1-7 (they are in B.t.u.); subtract from the B.t.u. output per unit of fuel. For oil it's about 19,000 B.t.u. per lb. (Fig. 3). The subtracted number divided by the full B.t.u. output per unit of fuel gives the boiler efficiency.

On the sample figures shown (Figs. 1-5), let's pick fuel oil (Fig. 3). Here we start with a CO₂ reading of 12.25%, scale A, and the fuel oil dealer tells us our oil has 19,000 B.t.u. per lb., scale B. Draw a line between the two points. Where it crosses scale C we have the lb. of flue gas de-

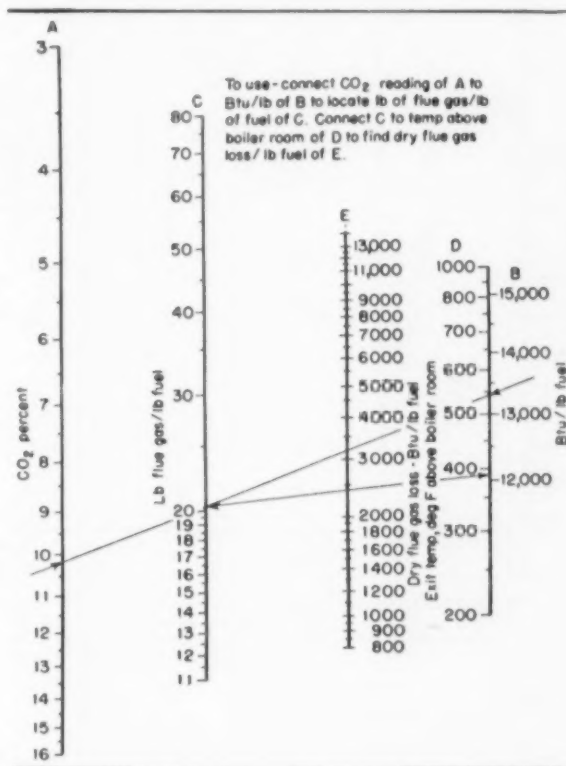


FIG. 1. Dry flue-gas loss—anthracite

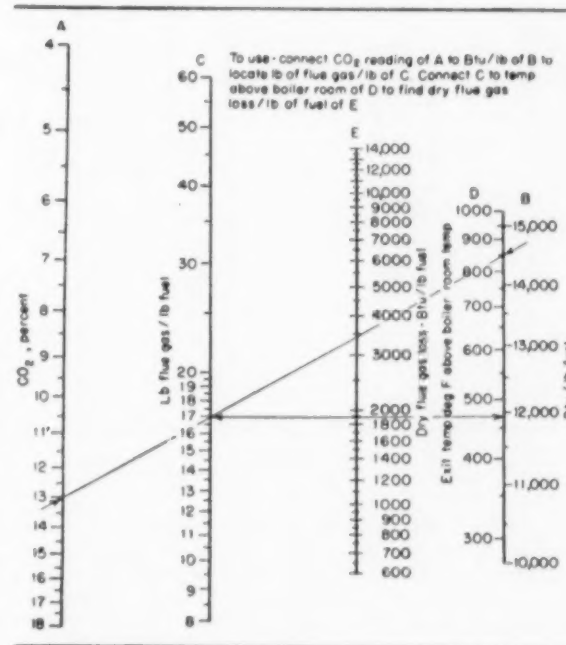


FIG. 2. Dry flue-gas loss—bituminous coal

* Source—Fuels and Combustion Handbook, Johnson and Auth, McGraw-Hill Book Co.

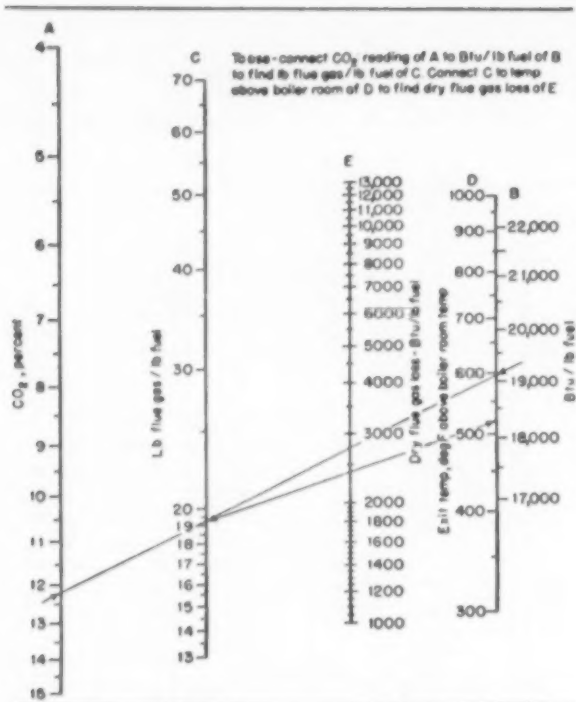


FIG. 3. Dry flue-gas—fuel oil

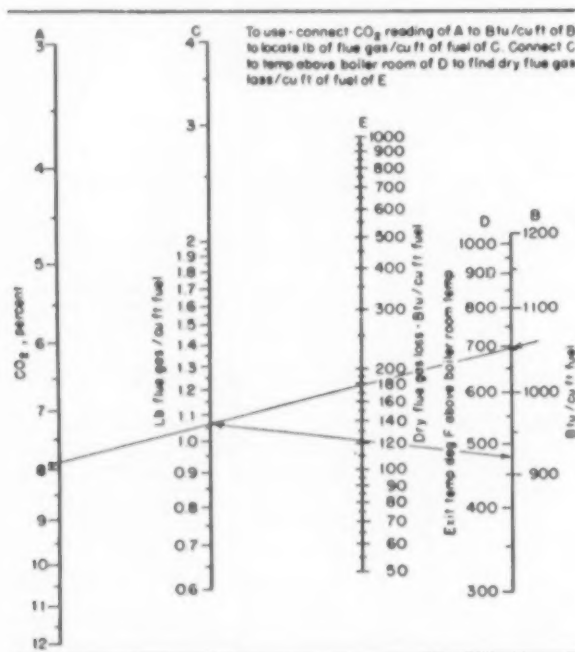


FIG. 4. Dry flue-gas loss—natural gas

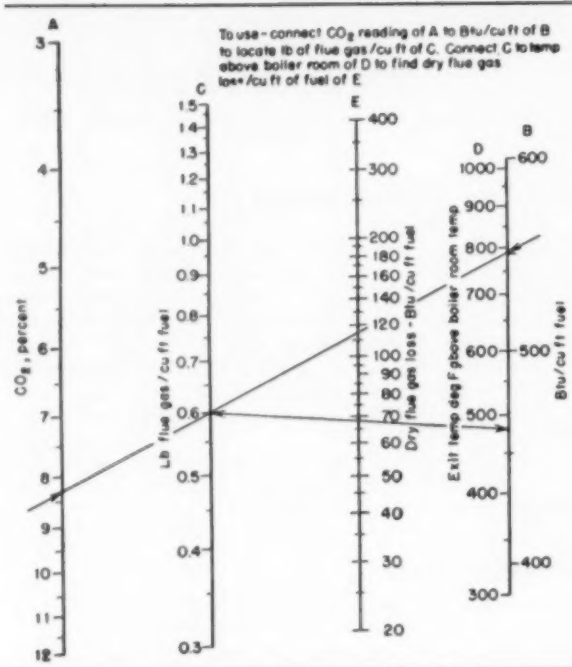


FIG. 5. Dry flue-gas loss—oil gas (Pacific Coast)

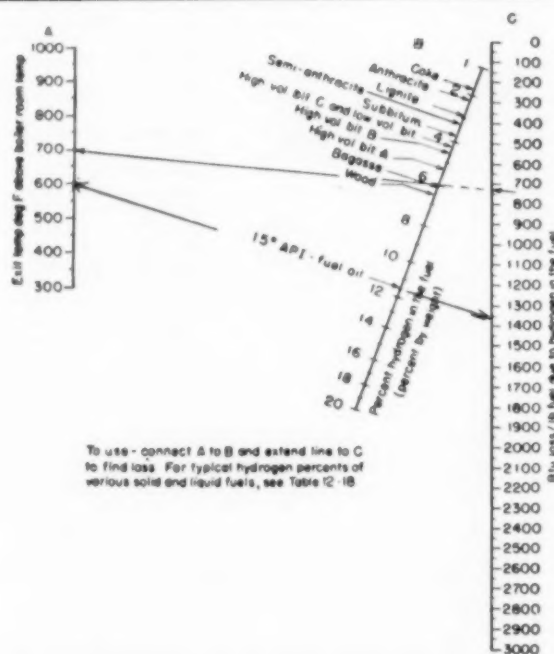


FIG. 6. Heat loss due to hydrogen in the fuel

veloped for every lb. of oil we burn. We look at the temperature of the flue gas leaving the boiler, subtract room temperature to get scale D, exit temperature of flue gas. We connect the two points, stack temperature scale D, and lbs. of flue gas per lb. of fuel, scale C. Where this line crosses scale E we have the B.t.u. loss, Step 1 of our efficiency check.

For Step 2 we take our stack temperature 600, scale D, Fig. 3, and start with it on scale A, Fig. 6. Go from there to scale B for the fuel oil we're using and go right through that point to scale C. Pick off this reading and we're ready for Step 3.

In Fig. 8 you would start again with stack temperature, 600, scale A, and go over to the moisture you knew was in

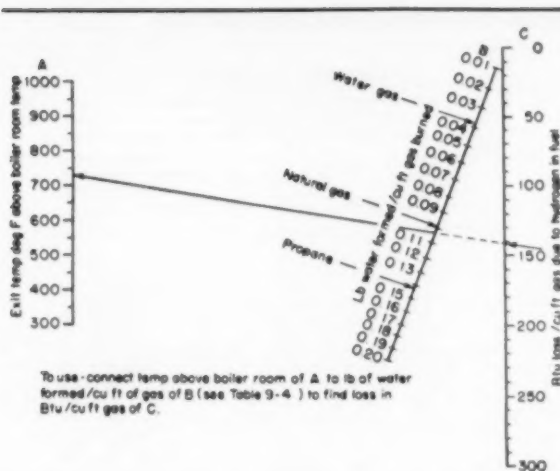


FIG. 7. Heat loss due to hydrogen in gas (volume basis)

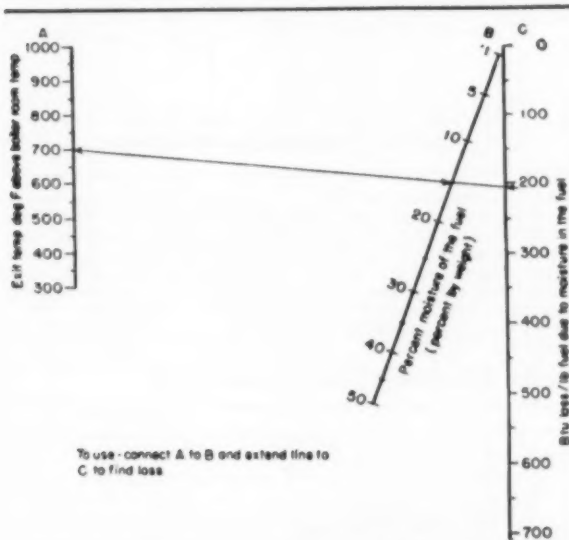


FIG. 8. Heat loss due to moisture in the fuel

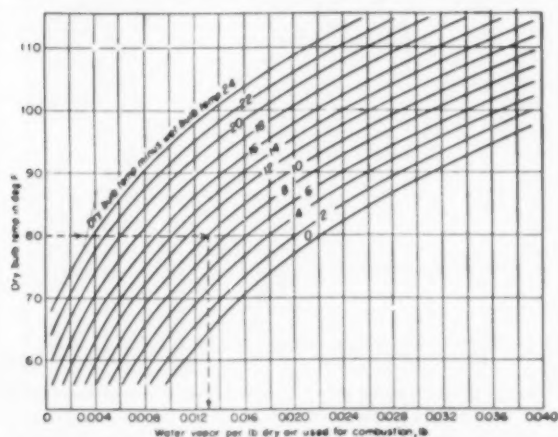


FIG. 9A. Water vapor per pound of dry air used for combustion (pounds)

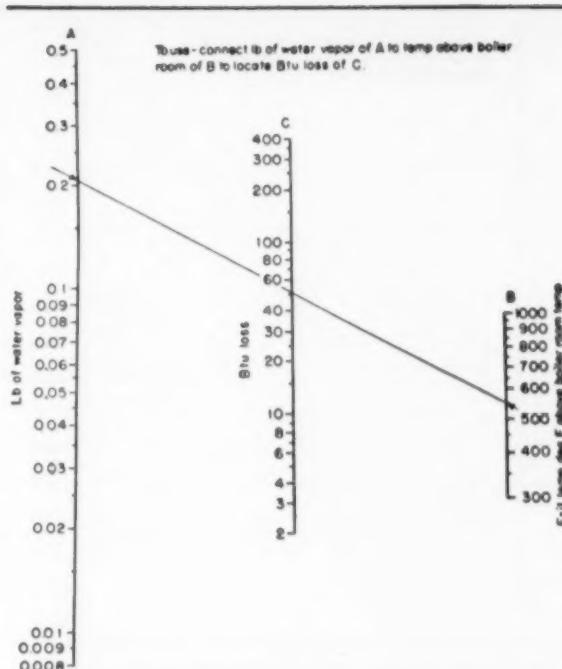


FIG. 9. Heat loss due to heating water vapor

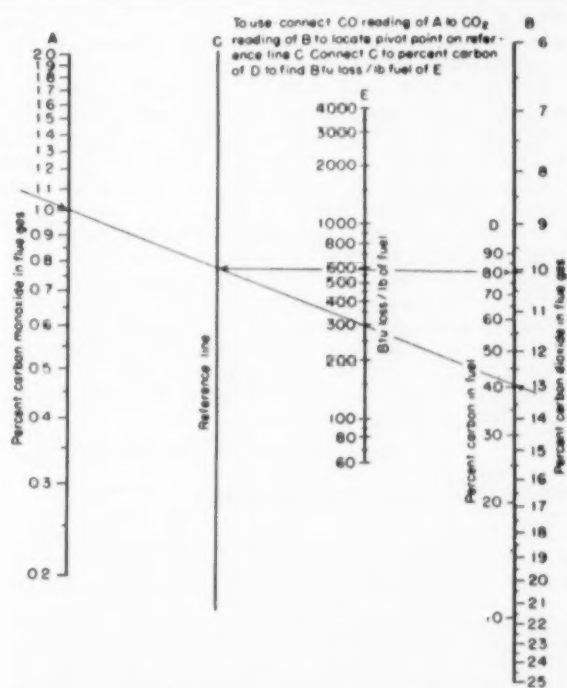


FIG. 10. Loss due to incomplete combustion of carbon as carbon monoxide in stack

the oil. But with No. 1 and 2 fuel oil this moisture content is negligible so your losses here are zero.

For Step 4, moisture in air loss, you'd have to have a wet bulb and a dry bulb reading. Your local weather bureau could tell you that at the time you ran a test and it would be

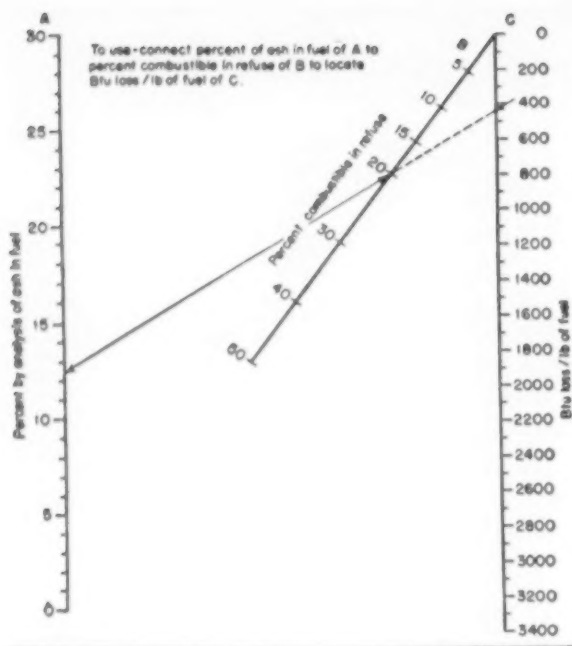


FIG. 11. Loss due to unconsumed carbon in the refuse

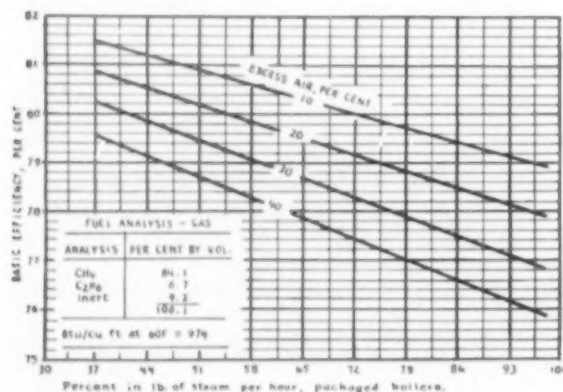
perfectly all right if you pulled your air for combustion from outside. If not, you should have a reading taken and use Fig. 9A. With this figure move over to Fig. 9, scale A. Cross over from there to stack temperature and where you moved across scale C you'll find the loss for Step 4.

In Fig. 10 start out on scale B with the CO_2 reading you had, Fig. 3. With good mixture your CO_2 scale A, should be practically zero. For fuel oil, unless you're in bad trouble, that's what you'll have and you can pretty nearly always skip Step 5. We show it for use with other fuels or for cases where you run into real trouble.

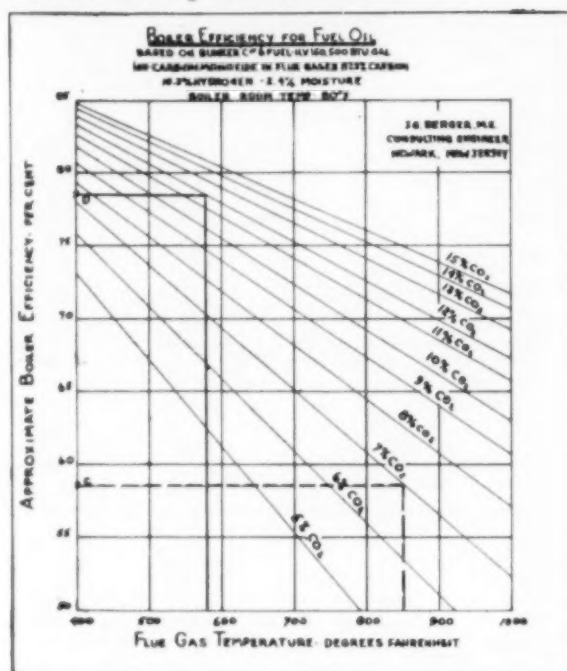
Similarly, for Step 6 the amount of fuel loss in refuse with No. 1 or 2 oils is too small to measure. But the chart (Fig. 11) is used for coal particularly. Get from your coal dealer the figure for scale A. You'd have to send a sample of your ashes to a laboratory to get scale C. Then you'd connect the two points as in the other charts and where you cross the scale B you'd pick off the loss from this cause.

For Step 7 you would use the figures suggested for the load you're carrying on the boiler.

Boiler Efficiency Chart for Gas

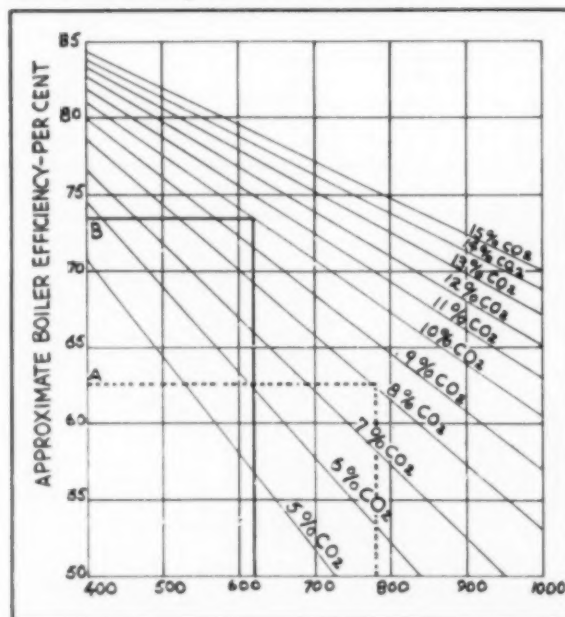


Boiler Efficiency Chart for Fuel Oil



Flue gas temperature and CO_2 content known, find flue gas temperature on lower scale and follow up to diagonal line designating CO_2 percentage; point of intersection at left gives approximate boiler efficiency. Dotted line "C" illustrates that boiler with flue temperature of 850 degrees and 7 percent CO_2 content will have efficiency of approximately 58.5 percent. Lowering temperature to 580 degrees and increasing CO_2 to 12 percent would bring boiler efficiency up to 78.5 percent as shown by solid line "D"

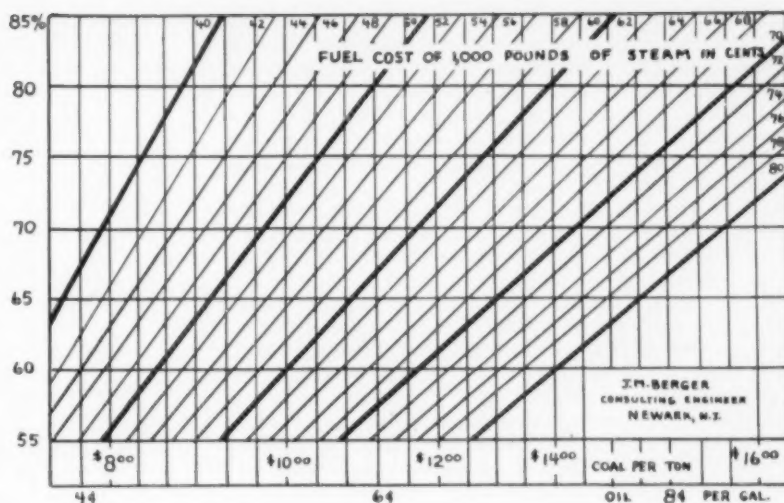
Boiler Efficiency Chart for Soft Coal



Based on flue gas temperature and CO_2 content, the chart provides an approximate efficiency rating for coal-fired boilers. To compute the efficiency of an installation with a flue temperature of 620 degrees and CO_2 content of 10 percent, trace up from the 620 point at the bottom of chart to the diagonal line representing 10 percent; intersection gives approximate boiler efficiency rating of 73.5 percent

Steam Cost Chart

Chart indicates the cost of steam at varying prices for coal and oil with different over-all operating efficiencies. From cost of oil or coal at the bottom of chart trace up to point of assumed boiler efficiency on the scale at the left. The point of intersection on the slanting line will show fuel costs per 1,000 pounds of steam and can be read to nearest cent or to a tenth of a cent by proportion. For example, a plant using No. 6 Bunker C oil selling at 5.2 cents per gallon with a boiler of 65 percent efficiency will be paying 53.4 cents per 1,000 pounds of steam. Improving the boiler efficiency to 75 percent will cut steam cost to 46 cents, resulting in a saving of 7.4 cents per 1,000 pounds. Or a 70-percent-efficient boiler burning 14,000 B.t.u. coal selling at \$10 per ton will deliver 1,000 pounds of steam at 51 cents per thousand pounds. This chart may be used in plotting the comparative costs of coal and oil or for figuring possible savings from stokers and combustion controls. If fuel costs go higher than shown on chart use one half fuel cost and multiply resulting cost of steam by 2.



Based on 14,000 B.t.u. per pound of coal and 150,000 B.t.u. per gallon of oil, steam pressure 105 pounds gauge, moisture 2%, feed water 205° F.

Sizes for Boiler Combustion Chambers

Method of firing	B.t.u. per cubic foot	Approximate cubic feet required per hp.
Hand	50,000	1 1/10 cubic feet
Stoker	45,000	1 cubic foot
Oil	30,000	1 1/2 cubic feet
Pulverized Coal	20,000	2 1/4 cubic feet
Gas	30-35,000	1 1/2 cubic feet

In computing cubic contents of combustion chambers measure the depth to bridgwall for underfeed stoker and hand firing; the entire depth for pulverized coal, oil or gas firing and for spreaders or overfeed stokers. Width times height times depth will give the cubic contents. From the table, an oil-fired installation requires 1 1/2 cubic feet of combustion chamber per horsepower, thus a 50 hp. boiler should have about 75 cubic feet of combustion chamber.

Gallons of Water To Feed Boilers

Horsepower	Gallons per minute	Gallons per hour
50	3.45	207
75	5.18	311
100	6.90	414
125	8.63	518
150	10.35	621
175	12.08	725
200	13.80	828
225	15.53	932
250	17.25	1035

One gallon of water weighs 8.34 pounds at 60° Fahrenheit. One boiler horsepower equals 34.5 pounds of water or 4.14 gallons of water evaporated per hour from 212° Fahrenheit.

Boiler hp. \times 34.5 = pounds of water required per hour
 Boiler hp. \times 4.14 = gallons of water required per hour
 Boiler hp. \times .069 = gallons of water required per minute.

Losses From Boiler Scale

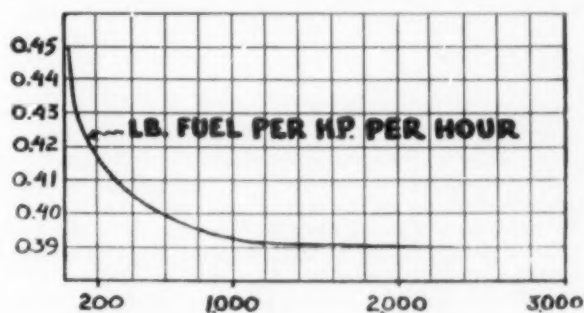
Character of scale	Thickness	Loss of efficiency	Coal wasted from every ton of coal fired
Hard	1/50"	5.4%	100 lbs.
Hard	1/32"	7.2%	140 lbs.
Hard	1/25"	9.3%	180 lbs.
Hard	1/16"	12.6%	220 lbs.
Hard	1/9"	15.9%	320 lbs.

To combat loss in efficiency and excessive fuel costs resulting from boiler scale, some plants remove all scale-forming elements from the water before it is fed to the boiler. This is the ideal method but not always practical. Under other circumstances, feed water is treated with compounds changing the elements in the water from those quick to attach themselves to the boiler to those that remain in solution or form a soft sludge that can be blown out.

Diesel Fuel Consumption

The accompanying chart plots approximate fuel consumption of various diesels, based on prewar diesel efficiencies.

For instance, if requirements are very small—50 horsepower or even less—figure on a fuel consumption of 0.45 pounds per horsepower per hour with a modern engine. If



a 100 hp. diesel is employed, the consumption will be about 0.42 pounds per horsepower per hour. The curve shows that with increase in engine size the fuel consumption improves rapidly from the smallest sizes to 200 horsepower. From 200 to 1,000 horsepower the improvement is less rapid. And from 1,000 to 3,000 horsepower the improvement is very slight; it is practically 0.39 pounds per horsepower per hour for all of the sizes in that range.

To determine the efficiency of any engine size, with any fuel, multiply the B.t.u. value of the fuel per pound by the number of pounds per horsepower per hour and divide the product into 2,546.

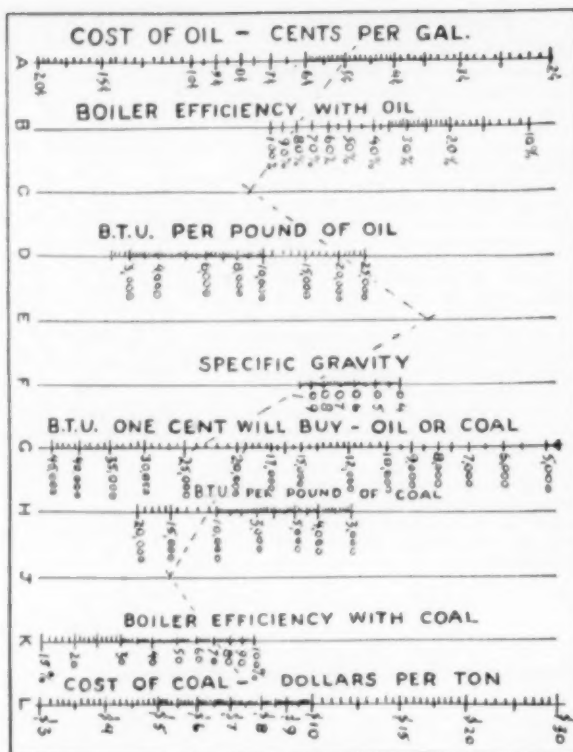
For example, if the fuel contains 20,000 B.t.u. per pound and requirements call for a 500 hp. engine, multiply 20,000 by (from the chart) 0.40, which gives 8,000 as the product. Now divide 2,546 by 8,000 and it will be found that the engine will have an efficiency of 31.8 percent, which is a high efficiency as compared with most engines of other types. This means that 31.8 percent of the heat contained in the fuel will be converted into work. Even at 0.45 pounds of fuel per horsepower per hour, other conditions being the same, efficiency will be 28.3 percent.

Coal and Oil Costs Compared

The accompanying chart was developed to assist in checking the cost of coal and oil per B.t.u.

To use the chart zigzag through the cost of oil per gallon, column A; boiler efficiency with oil, column B; B.t.u. per pound of oil, column D, and the specific gravity, column F. The intersection with column G then gives the number of B.t.u. in the oil purchased for one cent.

Then zigzag from the bottom through the cost of coal, dollars per ton, column L; boiler efficiency with coal, column K, and B.t.u. per pound of coal, column H. The intersection with column G now gives the number of the B.t.u. in the coal that can be purchased for one cent, permitting a comparison with oil.



The dotted lines drawn across the chart show how oil at five cents per gallon is compared with coal at \$8 per ton. In this special instance one cent will buy 24,000 B.t.u. of oil or a little over 19,000 B.t.u. of coal. Oil has the advantage under the conditions of this particular problem.

Boiler Heat Balances

(For good, fair and poor operating conditions)

	Coal			Fuel Oil			Natural Gas			
	Good	Fair	Poor	Good	Fair	Poor	Good	Fair	Poor	
Heat loss in unburned coal	0.4	1.5	5.0	Controllable Losses
Heat lost in unburned gas (CO, etc.)	0.2	0.4	5.0	0.2	0.6	6.0	0.2	0.6	5.0	
Sensible heat lost in products of combustion	4.8	6.8	10.8	4.8	6.8	10.8	4.8	6.8	10.8	
Heat lost in excess air	0.9	1.9	10.3	0.7	1.9	10.3	0.7	1.9	10.3	
Latent heat lost in water vapor products of combustion	2.7	2.9	3.0	5.5	5.5	5.5	9.1	9.1	9.1	Fixed Losses
Radiation and unaccounted-for heat losses (by difference)	1.2	2.5	4.0	1.2	2.5	4.0	1.2	2.5	4.0	
Heat used in generating steam	89.8	84.0	61.9	87.6	82.7	63.4	84.0	79.1	60.8	Steam
Based on flue gas temperature, °F.	300	400	600	300	400	600	300	400	600	
Based on excess air, percent	20	30	100	15	30	100	15	30	100	

Source—Bailey Meter Co.

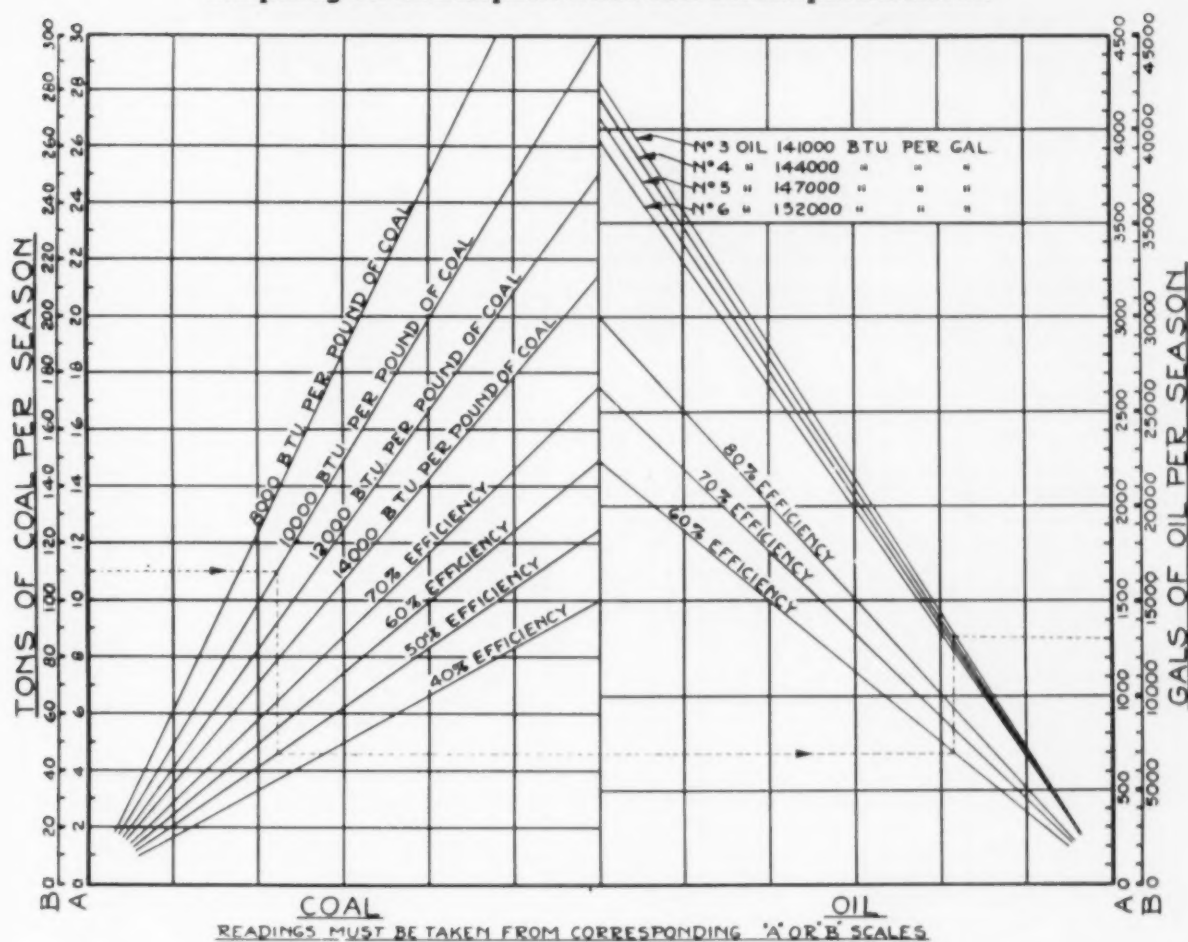
A boiler that is 84 percent efficient employs 84 percent of the B.t.u. in the fuel for the generation of steam. The accompanying table quotes the percentages of B.t.u. dissipated in various ways of coal-, oil- and gas-fired boilers under good, fair and poor operating efficiencies. These percentages are grouped under controllable losses, fixed losses and those used in generation of steam.

A good installation using coal has an efficiency of 89.8

percent while with a poor installation the efficiency falls to 61.9 percent. Controllable losses are 31.1 percent for the poor coal-fired installation and only 6.3 percent for the good.

Not all controllable losses may be eliminated; to reduce some of them greatly may increase others. For instance, if the loss due to excess air is reduced too much, the saving effected will be offset by the increasing losses from unburned gases or smoke.

Computing Oil Consumption When Coal Consumption Is Known



When coal consumption is known, this chart permits ready estimation of comparative gallons of oil required. Locate coal consumption on left-hand A or B scale, read right to the heat content, down to the efficiency curve. From this point trace horizontally right to the assumed oil efficiency, up to the grade of oil assumed, then right to the corresponding A or B scale for oil and read to the comparative oil consumption. As illustrated in the dotted lines above, if a plant burns 110 tons of 10,000 B.t.u. coal at an efficiency of 50 percent, a comparative oil burning installation using No. 4 oil at 60 percent efficiency will require 13,000 gallons of oil for the same period. The chart may be used in reverse when oil consumption is known to estimate comparative tons of coal needed for a like period of time.

Proportions Between Feed Pipes and Main Line

(Number of smaller pipes to equal cross-sectional area of one larger pipe)

Main Line		Feed Pipe Sizes												
Sizes	¾	½	¾	1	1 ¼	1 ½	2	2 ½	3	3 ½	4	4 ½	5	6
¾	1	...	...	...	...	...	...	...	...	...	...	...	...	...
½	1.6	1	...	...	...	...	...	...	...	...	...	...	...	...
¾	2.8	1.8	1	...	...	...	...	...	...	...	...	...	...	...
1	4.5	2.8	1.6	1	...	...	...	...	...	...	...	...	...	...
1 ¼	7.8	4.9	2.8	1.7	1	...	...	...	...	...	...	...	...	...
1 ½	10.6	6.7	3.8	2.4	1.4	1	...	...	...	...	...	...	...	...
2	17.6	11.0	6.3	3.9	2.2	1.6	1	...	...	...	...	...	...	...
2 ½	25	15.7	9.0	5.5	3.2	2.4	1.4	1	...	...	...	...	...	...
3	39	24.3	13.9	8.6	4.9	3.6	2.2	1.5	1	...	...	...	...	...
3 ½	52	32	18.5	11.4	6.6	4.8	2.9	2.1	1.3	1	...	...	...	...
4	67	42	24	14.7	8.5	6.3	3.8	2.7	1.7	1.3	1	...	...	...
4 ½	83	52	30	18.5	10.7	7.8	4.8	3.3	2.2	1.6	1.3	1	...	...
5	105	66	38	23	13.4	9.8	6.0	4.2	2.7	2.0	1.6	1.3	1	...
6	151	95	54	33	19	14.2	8.6	6.0	3.9	2.9	2.3	1.8	1.4	1

EFFICIENCY TABLE
BASED ON EVAPORATION FROM AND AT 212° F.

B.T.U. PER LB. COAL	50% EFF.	55% EFF.	60% EFF.	65% EFF.	70% EFF.	72% EFF.	74% EFF.	76% EFF.	78% EFF.	80% EFF.
	EVAPORATION PER POUND OF COAL POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL POUNDS COAL PER H.P. HOUR	EVAPORATION PER POUND OF COAL POUNDS COAL PER H.P. HOUR
7000	3.61	3.97	4.33	4.69	5.05	5.19	5.34	5.48	5.63	5.77
7500	3.86	4.25	4.64	5.02	5.41	5.57	5.72	5.88	6.03	6.19
8000	4.12	4.53	4.95	5.36	5.77	5.93	6.09	6.26	6.43	6.60
8500	4.37	4.82	5.26	5.69	6.04	6.13	6.48	6.66	6.83	7.01
9000	4.63	5.10	5.57	6.03	6.49	6.53	6.86	7.05	7.24	7.42
9500	4.89	5.38	5.88	6.36	6.85	7.05	7.24	7.44	7.64	7.83
10000	5.15	5.67	6.18	6.69	7.21	7.42	7.62	7.83	8.04	8.24
10500	5.41	5.95	6.49	7.03	7.57	7.79	8.01	8.22	8.44	8.66
11000	5.67	6.23	6.80	7.36	7.93	8.16	8.38	8.62	8.84	9.07
11500	5.93	6.52	7.11	7.70	8.24	8.53	8.77	9.01	9.25	9.48
12000	6.19	6.80	7.42	8.04	8.66	8.91	9.15	9.39	9.65	9.89
12500	6.45	7.08	7.73	8.37	9.02	9.27	9.53	9.79	10.05	10.31
13000	6.71	7.37	8.04	8.71	9.38	9.65	9.92	10.18	10.45	10.72
13500	6.97	7.65	8.34	9.04	9.73	10.02	10.29	10.57	10.85	11.13
14000	7.23	7.94	8.66	9.38	10.10	10.38	10.67	10.97	11.25	11.54
14500	7.45	8.22	8.97	9.72	10.46	10.76	11.06	11.36	11.66	11.95

Source—Detroit Stoker Co.

Trace left from B.t.u. value of coal to column denoting boiler efficiency. Point of intersection gives number of pounds of water evaporated for each pound of coal fed into furnace and number of pounds burned per horsepower. Plant taking 200 hp. per hour and burning coal of 14,000 B.t.u. per pound at 70 percent efficiency will require (from chart) 3.42 pounds of coal per horsepower per hour or total of 684 pounds per hour

Belt and Pulley Calculations

To Find Lengths of Belts: Add the diameter of the two pulleys together, multiply by $3\frac{1}{8}$ and divide the product by two. Add twice the distance between the centers of the shafts to the quotient and that will be the length required.

To Calculate Power of Belts: The horsepower of any belt equals its velocity in feet per minute multiplied by its width and divided by 1,000 for single and 700 for double belts. A 1-inch single belt, velocity 1,000 ft. per minute, equals 1 horsepower. A 1-inch double belt, velocity 700 ft. per minute, equals 1 horsepower.

To Find Diameter of Driving Pulley: Multiply diameter of driven pulley by the number of revolutions per minute and

divide by the number of revolutions of driver. Quotient will be diameter of the driver.

To Find Speed of Driving Pulley: Multiply diameter of the driven pulley by its revolutions per minute and divide by diameter of driver. Quotient will be number of revolutions of driver.

To Find Diameter of Driven Pulley: Multiply diameter of driver by its number of revolutions per minute and divide by number of revolutions of the driven pulley. Quotient will be the diameter of driven pulley.

To Find Speed of Driven Pulley: Multiply diameter of driver by its number of revolutions per minute and divide by diameter of driven pulley. Quotient will be number of revolutions of driven pulley.

FACTS FOR FIGURING

Flexible Metal Hose—Lengths and Minimum Bending Distances

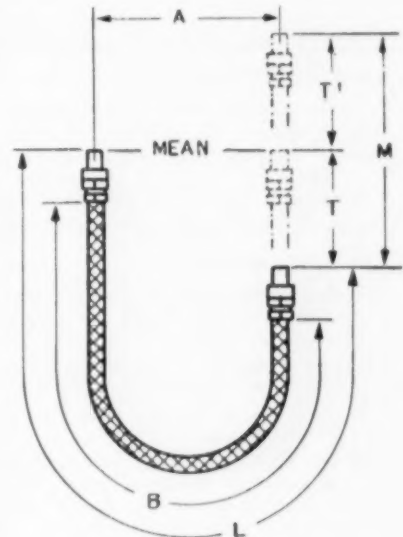
Length of hose includes three factors: Bending Distance A, Travel of Hose M ($T + T'$) and Coupling Factor C. With installation at minimum bending distance A and no travel, take length L from table. For hose subject to travel and installed at distance A, take L from table and add one-half travel when T and T' are equal; when they are not, add the larger. To calculate hose length independently, use following formulae:

Hose I. D. $\frac{1}{4}$ " to 2": Length $L = 2\frac{1}{2} A + C + T$ (use T or T' whichever is greater)

Hose I. D. $2\frac{1}{2}$ " to 6": Length $L = 1\frac{1}{2} A + C$ (no travel)

HOSE I. D.	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"
A	8"	10"	12"	16"	18"	20"	24"	26"
B	20"	24"	30"	36"	44"	50"	56"	62"
C	4-1/2"	5"	5-1/2"	6"	7"	7-1/2"	8"	8"
L	25"	29"	36"	44"	51"	58"	64"	70"

HOSE I. D.	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"
A	28"	30"	64"	72"	78"	84"	108"	120"
B	68"	72"	9' 6"	10' 4"	11' 4"	12' 6"	18 FT.	18 FT.
C	9"	9"	9"	11"	-	-	-	-
L	77"	81"	10 FT.	11' 6"	-	-	-	-



Source—Packless Metal Products Corp.

Trap Capacities

(Table of factors for determining at reduced pressure)

Minimum Operating Pressure	Maximum Operating Pressure												
	5#	10#	15#	20#	30#	40#	50#	60#	70#	80#	90#	100#	125#
1/10 lb.	.14	.10	.09	.08	.07	.06	.05	.05	.05	.04	.04	.04	.04
1/4 lb.	.22	.16	.14	.12	.10	.09	.08	.07	.07	.06	.06	.06	.06
1/2 lb.	.32	.22	.19	.17	.14	.12	.11	.10	.09	.08	.08	.08	.07
1 lb.	.45	.32	.26	.23	.19	.17	.15	.14	.13	.12	.11	.11	.10
2 lbs.	.63	.45	.36	.33	.27	.23	.20	.19	.18	.17	.16	.16	.15
3 lbs.	.78	.55	.45	.40	.33	.29	.27	.24	.23	.21	.20	.19	.18
4 lbs.	.89	.64	.52	.46	.38	.33	.30	.27	.26	.24	.23	.23	.20
5 lbs.	1.00	.71	.58	.52	.43	.37	.34	.31	.29	.27	.26	.25	.23
10 lbs.	...	1.00	.82	.72	.61	.52	.48	.44	.41	.39	.37	.36	.32
15 lbs.	...	...	1.00	.85	.73	.62	.59	.56	.51	.48	.45	.43	.39
20 lbs.	...	...	...	1.00	.83	.73	.66	.61	.58	.55	.51	.49	.44
25 lbs.	...	...	...	...	.91	.80	.78	.69	.65	.61	.55	.53	.47
30 lbs.	...	...	...	...	1.00	.88	.79	.75	.70	.66	.60	.59	.54
40 lbs.	...	...	...	...	...	1.00	.90	.84	.80	.76	.69	.67	.61
50 lbs.	...	...	...	...	...	...	1.00	.93	.89	.84	.78	.75	.68
60 lbs.	...	...	...	...	...	...	...	1.00	.93	.88	.83	.80	.73
70 lbs.	...	...	...	...	...	...	...	...	1.00	.94	.89	.85	.78
80 lbs.	...	...	...	...	...	...	...	...	...	1.00	.95	.91	.82
90 lbs.	...	...	...	...	...	...	...	...	...	...	1.00	.95	.87
100 lbs.	...	...	...	...	...	...	...	...	...	...	...	1.00	.91
125 lbs.	...	...	...	...	...	...	...	...	...	...	...	...	1.00

Source—V. D. Anderson Co.

Although a steam trap will operate at pressures below those for which it is designed, the capacity decreases with the fall in pressure. The accompanying table gives cor-

rection factors for determining trap capacities at reduced pressures.

Locate the normal operating pressure in the top line;

follow down this column to the reduced pressure desired. The point of intersection shows the correction factor. Multiply the normal trap capacity by the correction factor, and the product is the trap capacity under the reduced pressure.

For example, if a trap designed for 225 pounds pressure delivers 1800 pounds of condensate per hour at maximum operating pressure, at 70 pounds pressure the capacity will be $1800 \times .61$ (correction factor in this case) = 1098 pounds of condensate per hour at the reduced pressure. Excess condensate in heated equipment lowers the temperature.

Computing Tank and Jar Capacities

Square or rectangular:

1. To compute cubic contents multiply length by width by depth. For example, the cubic contents of a tank 10 feet long, 6 feet wide and 4 feet deep is 240 cubic feet.
2. Since 1 cubic foot equals $7\frac{1}{2}$ gallons, the tank above would hold 1,800 gallons ($7\frac{1}{2} \times 240 = 1,800$ gallons).

Cylindrical or round:

1. Square the diameter and multiply by .7854 and then multiply by the length or depth to obtain cubic contents. Capacity of a cylindrical tank 4 feet in diameter and 6 feet in length is 75.3984 cubic feet ($4 \times 4 \times .7854 \times 6 = 75.3984$ cubic feet).
2. With $7\frac{1}{2}$ gallons per cubic foot the tank would hold 565.49 gallons.

NOTE: When dimensions include both feet and inches, reduce all to feet or to inches before multiplying. If measurements are all in inches, the answer will be cubic inches. To reduce to cubic feet divide by 1728 (1728 cubic inches = 1 cubic foot).

Capacities of Tanks

To calculate the number of gallons in the cylinder of a clarifying tank use the following data:

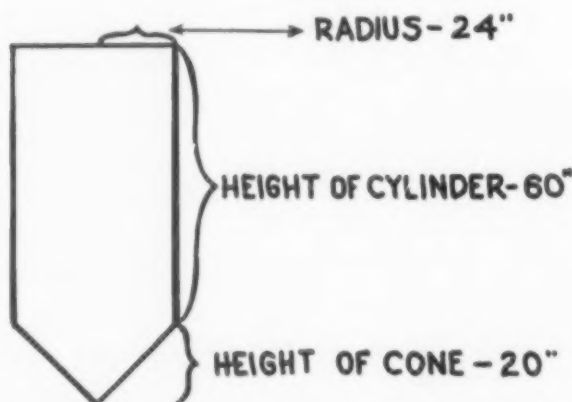
$$\frac{3.14 \times \text{radius}^2 \times \text{height}}{231} = \text{cubic inches in cylinder}$$

$$\frac{231 \text{ cubic inches} = 1 \text{ gallon}}{\text{cubic inches} \div 231 = \text{gallons in cylinder}}$$

Given a tank cylinder with a radius of 24 inches and a height of 60 inches:

$$\frac{3.14 \times 24 \times 24 \times 60}{231} = 470 \text{ gallons}$$

To calculate the number of gallons in the cone of a tank use the following formula:



$$\frac{3.14 \times \text{radius}^2 \times \text{height}}{3 \times 231} = \text{gallons in the cone}$$

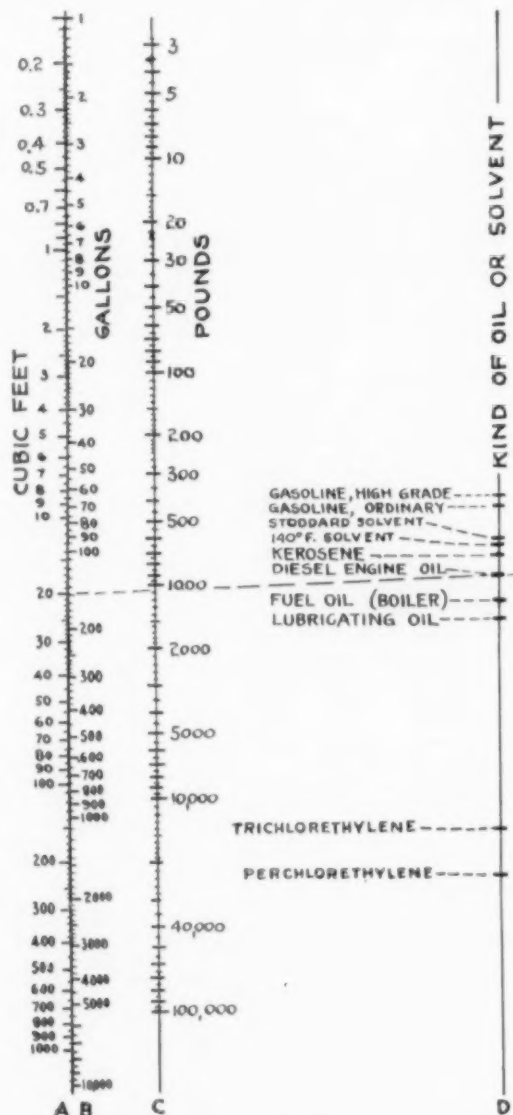
To find the capacity of a tank cone with a radius of 24 inches and a height of 20 inches:

$$\frac{3.14 \times 24 \times 24 \times 20}{3 \times 231} = 52 \text{ gallons}$$

Weight of Oils and Solvents

Because the weights of different oils and solvents vary considerably, there may be uncertainty as to the number of pounds in a given container. By use of this chart you can easily determine the weight of any number of cubic feet or number of gallons of any of the common oils and solvents.

For example, what is the weight of 20 cubic feet of diesel engine oil?



The dotted lines drawn across the chart shows how the problem is solved. Connect the 20 in column A with the point in column D corresponding with "diesel engine oil."

The intersection with column C gives the weight as about 1,060 pounds. If the quantity of oil is given in gallons, use column B instead of column A.

Inversely, if the number of pounds is known and the kind of oil or solvent is known, a line through the known points gives us an intersection in columns A-B which tells the desired volume.

Columns A-B can also be used as a conversion scale. Thus, for example, 20 cubic feet are equivalent to almost 150 gallons. Or, 1,000 cubic feet are equivalent to about 7,500 gallons, and so on.

The range of the chart is great enough to take care of most problems. The weight covers all quantities between 3 pounds and 100,000 pounds. Should quantities be smaller or greater, they can be computed by simply shifting the

decimal point. Thus, for instance, the dotted line drawn across the chart through the 20 cubic feet can also tell us that 20,000 cubic feet will weigh 1,060,000 pounds.

Should you prefer to make computations in longhand or on a slide rule, this chart is based on the following weights per gallon:

Gasoline, high grade	6.00 lb. per gal.
Gasoline, ordinary	6.12 lb. per gal.
Stoddard solvent	6.58 lb. per gal.
140°F solvent	6.65 lb. per gal.
Kerosene	6.81 lb. per gal.
Diesel engine oil	7.09 lb. per gal.
Fuel oil	7.50 lb. per gal.
Lubricating oil	7.78 lb. per gal.
Trichlorethylene	12.3 lb. per gal.
Perchloroethylene	13.55 lb. per gal.

BOOKS FOR DRYCLEANERS

ABC's of Drycleaning. The National Institute of Drycleaning, Silver Spring, Md. \$7.50 per 100 (sold to members only).

Alterations of Men's Clothing. Second edition. By David Carlin. Fairchild Publications, Inc., 7 E. 12th St., New York 3, N. Y. \$5.00.

Applied Science for Drycleaners. By George P. Fulton. The National Institute of Drycleaning, Silver Spring, Md. \$6.50; members \$3.25.

Briefs for Broadcasting. The National Institute of Drycleaning, Silver Spring, Md. \$1.00 (sold to members only).

Common Sense Incentives for the Small Shop. By Ed Vasselos and Harold Whitaker. Common Sense Incentives, P. O. Box 562, Sheboygan, Wis. \$5.00.

The Drycleaning Department. By C. B. Randall. The National Institute of Drycleaning, Silver Spring, Md. \$3.50; members \$1.75.

Establishing and Operating a Dry Cleaning Business. Revised Edition. U. S. Department of Commerce, Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. 70 cents.

Fabrics Today and Drycleaning. By Louis Goldblatt, Frank Polatsek and William Seitz. Neighborhood Cleaners Association, 412 Lafayette St., New York 3, N. Y. \$25.00; members \$15.00.

The Fur Book. By David G. Kaplan. The National Cleaner & Dyer, 304 E. 45th St., New York 17, N. Y. \$7.50.

A Handbook for Route Salesmen. By Fred DeArmond. Moore Publishing Company, 48 W. 38th St., New York 18, N. Y. \$2.00.

Legislative Digest. The National Institute of Drycleaning, Silver Spring, Md. \$1.00 (sold to members only).

The Lot System. By Claude E. Lucas. Pacific Laundry & Cleaning Journal, 121 Second St., San Francisco 5, Cal. \$4.00.

Manual for Training Silk Finishers. By Laura Herrmann Porterfield. National Cleaner & Dyer, 304 E. 45th St., New York 17, N. Y. \$1.00.

Production in Silk Finishing. The National Institute of Drycleaning, Silver Spring, Md. 50 cents (sold to members only).

Profitable Alterations. The National Cleaner & Dyer, 304 E. 45th St., New York 17, N. Y. 50 cents.

Route Sales Management. By Fred DeArmond and George N. Graf. Moore Publishing Company, 48 W. 38th St., New York 18, N. Y. \$5.00.

Sell Drycleaning. By Stuart Standish. With incentive-program material. Sell Drycleaning, 510 N. Dearborn St., Chicago 10, Ill. Includes The Executive Manual, \$13.50; The Trainer's Manual, \$10.50; Salesmen Training Releases, \$8.00.

Sell Drycleaning From the Store. With incentive-program material. By Stuart Standish and Nancy Garner. Sell Drycleaning, 510 N. Dearborn St., Chicago 10, Ill. \$5.00.

Silk Finishing. By J. W. Maher. The National Institute of Drycleaning, Silver Spring, Md. \$3.50; members \$1.75.

The Spotting Department. By Clyde Covington. The National Institute of Drycleaning, Silver Spring, Md. \$3.50; members \$1.75.

Spotter's Pocket Guide. Spotter's Pocket Guide, P. O. Box 265, Silver Spring, Md. \$3.00.

Storage for the Drycleaner. National Cleaner & Dyer, 304 E. 45th St., New York 17, N. Y. 50 cents.

Tables of Square Measurements. By Frank Trickey. David McKay Company, Inc., 225 Park Ave., New York, N. Y. \$3.00.

Tailoring Suits the Professional Way. By Clarence Poulin. Chas. A. Bennett Co., Inc., 237 N. Monroe St., Peoria 3, Ill. \$4.50.

Uniform Account Classification for Drycleaning Plants. The National Institute of Drycleaning, Silver Spring, Md. \$1.00 (sold to members only).

Wage Incentive Procedures for Drycleaners. The National Institute of Drycleaning, Silver Spring, Md. \$1.00 (sold to members only).

Wetcleaning. By Norbert J. Berg. The National Institute of Drycleaning, Silver Spring, Md. \$3.50; members \$1.75.

Who's Liable? The National Institute of Drycleaning, Silver Spring, Md. 50 cents (sold to members only).

COURSES IN DRYCLEANING AND RELATED SUBJECTS

NOTE: Time limits on GI educational benefits:

Veterans of World War II can no longer *start* education or training under GI bill.

Veterans who enlisted or reenlisted under Armed Forces Recruitment Act (Public Law 190) between October 6, 1945, and October 5, 1946, must begin courses within 4 years from end of enlistment or reenlistment period, complete them within 9 years from that date.

Veterans of active service on or after June 27, 1950, and before the end of the Korean conflict must begin training by August 20, 1954, or 2 years after discharge, whichever is later. They must complete it within 7 years after discharge.

Disabled veterans may begin education or training (Public Law 16) at any time after discharge. Disabled veterans of World War II must complete courses by July 25, 1956. Those disabled after June 27, 1950, must complete courses within 9 years from end of Korean conflict.

Association Schools

National Institute of Drycleaning
Silver Spring, Maryland

GENERAL COURSE

Subjects: Drycleaning, spotting, wetcleaning, finishing, Theory, laboratory, plant practice.
Duration: 12 weeks.
Fees: Tuition \$350; textbooks and supplies \$25; laboratory fee \$1.
Eligibility: Bona fide connection with member plant (waived for veterans); 1 year plant experience; 18 years age minimum.

GI approved.

PLANT MANAGEMENT

Subjects: Supervisory methods, wage incentives, work standards, layout, production control, customer relations, salesmanship, advertising, accounting, budgeting, effective writing and speaking, etc.
Duration: 4 weeks.
Fees: Tuition \$275; textbooks and supplies included.
Eligibility: Bona fide connection with member plant (waived for veterans).

GI approved.

RUG CLEANING COURSE

Subjects: Practical rug cleaning, carpet construction, identification, spotting and stain removal, applied science and engineering.
Duration: 3 weeks.
Fees: Tuition \$115; textbooks and supplies \$7; laboratory fee \$1.
Eligibility: Bona fide connection with member plant, NID or NIRC.

SILK FINISHING

Subjects: Finishing, fabrics, department layout, production figures and expectations.
Duration: 2 weeks.
Fees: Tuition \$70; textbooks and supplies \$6.
Eligibility: Bona fide connection with member plant, NID.

WOOL FINISHING

Subjects: Finishing, fiber identification, garment construction, department layout, production rate.
Duration: 2 weeks.
Fees: Tuition \$70; textbooks and supplies \$6.
Eligibility: Bona fide connection with member plant, NID.

EDUCATIONAL CONFERENCE FOR ASSOCIATE MEMBERS

Subjects: Drycleaning, spotting, wetcleaning, finishing.
Duration: 1 week.

Fee: \$100.
Eligibility: Bona fide connection with associate member firm, NID.

New York School of Drycleaning, Inc.
412 Lafayette Street, New York 3, N. Y.

Sponsored by: Neighborhood Cleaners Association.
Subjects: Principles and practices of drycleaning—spotting, fabrics and dyes, drycleaning, wetcleaning.
Duration: 80 hours, 10 weeks.
Fees: \$150.
Eligibility: 2 years in the industry, 3 years in related industry, or combination.

GI approved.

Public Schools, Association-Sponsored

Baltimore Vocational School for Drycleaning and Finishing
2614 Pennsylvania Avenue, Baltimore 17, Maryland

Conducted by: Department of Education, Division of Vocational Education, Baltimore, Maryland.
Sponsored by: Retail Cleaning Plant Owners, Inc. (Baltimore)
Subjects: Cleaning, wetcleaning and bleaching, spotting, finishing, storage, business practice and store management.
Duration: 1440 hours (52 weeks).
Dates: Students may enter at any time.
Fees: Nonveterans \$45 month full-time, \$22.50 month half-time, \$13.50 month part-time, plus books.

GI approved.

Commercial Trades School
1265 St. Denis Street, Montreal, Quebec, Canada

Conducted by: Department of Youth and Social Welfare, Province of Quebec.
Sponsored by: Launderers and Dry Cleaners' Association of the Province of Quebec, Inc.
Subjects: Spotting.
Duration: 20 weeks, one (3-hour) evening per week.
Fee: \$10.25.

Dallas Vocational School
2222 Ross Avenue, Dallas, Texas

Conducted by: Dallas Independent School District.
Sponsored by: Professional Laundry and Cleaning Association of Dallas.
Subjects: Marking and sorting, drycleaning, spotting, wetcleaning, finishing, plant management.
Duration: 19 weeks (15 hours a week, 3 hours a night).
Dates: Continuous.
Fees: \$85.50.
Eligibility: 16-60 years, elementary education.

Hadley Vocational Training School
3405 Bell Street, St. Louis, Missouri

Conducted by: Board of Education, City of St. Louis.
Sponsored by: St. Louis Dry Cleaners Exchange.
Subjects: Drycleaning, wetcleaning, silk and wool finishing, spotting, inspecting, sorting, bagging.
Duration: 2 evenings per week, 15 weeks.
Dates: Fall and spring semesters.
Fees: \$7 registration per semester.
Eligibility: Adults employed in industry or newcomers to industry.

School of Drycleaning Techniques
Central Technical School
275 Lippincott Street, Toronto, Ontario, Canada

Conducted by: Board of Education, City of Toronto.
Sponsored by: Dry Cleaners Institute (Ontario).
Subjects: Spotting, wetcleaning, heavy (wool) finishing, silk finishing, textiles. Theory and practice.
Duration: (A) Day school, 2 years, includes general high school subjects; (B) evening course, one night a week all subjects.
Dates: (A) September through June; (B) October through March.
Fees: (A) None for Toronto residents, \$350 year non-residents; (B) \$5 registration Toronto residents, \$15 non-residents.
Eligibility: (A) Grade VIII or equivalent; (B) employment in industry.

University of British Columbia, Extension Department
Vancouver, B. C., Canada

Sponsored by: Vancouver Laundry, Dry Cleaners and Linen Supply Association.
Subjects: Textile chemistry and spotting; theory and practice.
Duration: 16 weeks, one evening a week.
Fees: \$25.

Washington Technical High School
2800 Montgomery Street, St. Louis, Missouri

Like Hadley Vocational Training School, except both day and evening sessions; for negro students.

Trade Schools and Colleges

Essex County Vocational and Technical High School
300 North 13th Street, Newark 7, New Jersey

Conducted by: Essex County Board of Education.
Approved by: Wholesale Dyers and Cleaners Association.
Subjects: Related and technical drycleaning and spotting.
Duration: 1 year.
Dates: Fall and spring terms, 3 months each, 2 evenings per week.
Fees: No fee for those who work or live in Essex County. For others, \$14 per term.
Eligibility: (A) Bona fide apprentices in drycleaning establishments; (B) employees in drycleaning industry.

Hampton Institute, Division of Trades and Industries
Hampton, Virginia

Subjects: Complete course in tailoring and drycleaning. Includes some academic subjects.
Duration: 5 school years and 2 summers.
Dates: Early September to end May; summer session middle June to middle August.
Fees: Estimated expense for one college year \$750, including registration, tuition, activities, laboratory, room, laundry, meals, etc. Possibility of loans, part-time employment.
Eligibility: High-school graduates.
GI approved.

Los Angeles Trade Technical Junior College
Frank Wiggins Trade School
1646 South Olive St., Los Angeles 15, California

Conducted by: Los Angeles Board of Education.
Subjects: Drycleaning (fundamentals only), silk and wool finishing, spotting, wetcleaning; practice and theory. Fabric analysis, busheling.
Duration: 10 months.
Dates: About September 1 to June 30.
Fees: Student body membership dues \$2, plus small fee for materials.
GI approved.

North Georgia Trade and Vocational School
Clarksville, Georgia

Subjects: Complete general drycleaning course. Spotting.
Duration: 12 months.
Dates: Enrollment at any time during year.

Fees: None for Georgia residents; out-of-state students \$15 per month. Board, room and laundry \$41 per month.
Eligibility: Minimum age 16, white. Both men and women. Out-of-state students eligible.
GI approved.

Oakland Junior College
Laney Trade and Technical Institute
240 East 10th Street, Oakland, California

Conducted by: Board of Education, Oakland.
Subjects: Spotting, pressing, ladies' tailoring.
Duration: Full school year of two semesters.
Dates: Regular school term.
Eligibility: Residents of Oakland or neighboring community.
GI approved.

Oklahoma Agricultural and Mechanical College
School of Technical Training
Okmulgee, Oklahoma

Sponsored by: Oklahoma Association of Cleaners and Dyers, Dry Cleaners Institute of Texas, Kansas Cleaners and Dyers Association.
Subjects: (A) General course: drycleaning, silk finishing, wool finishing, spotting and wetcleaning, and related subjects, practice and theory. (B) Short course: drycleaning, silk finishing, wool finishing, spotting and wetcleaning.
Duration: (A) Five 16-week semesters; (B) each course 8 weeks, 8-hour day.
Fees: (A) \$125 per semester. Out-of-state students \$72 additional per semester; (B) \$100 for each 8-week short course. Monthly \$5 rental books and supplies. Low-cost housing and meals available.
Eligibility: Prerequisite for spotting and wetcleaning course only: drycleaning course or previous plant experience.
GI approved.

Harry E. Woods Vocational School
500 South Meridian Street, Indianapolis, Indiana

Conducted by: Indianapolis Public School System.
Subjects: Drycleaning, finishing, sorting, marking, assembly, spotting.
Duration: 9 months (2 terms).
Fees: None for Indianapolis residents; small fee for students from other parts of state.
Eligibility: Elementary education.

Commercial School

New England School of Dry Cleaning
1755 Revere Beach Parkway, Everett, Massachusetts

Subjects: (A) Spotting practice and fundamentals of drycleaning; (B) advanced silk spotting; (C) management; (D) concentrated course.
Duration: (A) 10 weeks, 2 evenings per week; (B) (C) 10 weeks, one evening per week; (D) 1 week full time.
Dates: Fall, winter and spring classes.
Fees: (A) \$100 plus \$10 for laboratory materials and supplies; (B) \$60 plus \$5 for laboratory materials and supplies; (C) \$65; (D) \$110.
Eligibility: (A) (B) (D) No restrictions; (C) plantowners and managers.
GI approved.

Correspondence School

Hubbard Drycleaning and Redyeing School
Route 3, Charlottesville, Virginia

Subjects: (A) General course (for managers and owners). (B) Drycleaning. (C) Spotting. (D) Wetcleaning, bleaching and stripping. (E) Dyeing all materials. (F) Drycleaning and spotting. (G) Spotting and wetcleaning. (H) Drycleaning, spotting and wetcleaning. (I) Spotting, wetcleaning and dyeing. (J) Applied chemistry for garment cleaners. (First figure cash; second installment payments)
Fees: (A) \$72.50, \$87.50. (B, C or D) \$32.50, \$38.50. (E or F) \$48.50, \$57.50. (G) \$38.50, \$48.50. (H or I) \$58.50, \$68.50. (J) \$50.00, \$62.50.

FILMS FOR GROUP SHOWING

Drycleaning Industry

Title: After the Ball Was Over.
Subject: Public Relations film dramatizing drycleaning skill, know-how and equipment.
Projection: 16 mm, sound, color, 23 minutes.
Produced by: Oklahoma Association of Cleaners and Dyers.
Distributed by: Arthur S. Davenport, Public Relations Director, Oklahoma Association of Cleaners and Dyers, 524 Fidelity Bldg., Oklahoma City, Okla. (Prints have been purchased by many state and local dry-cleaners' associations.)
Terms: Sale, \$250. (Prints not available for loan or rent outside of Oklahoma, except from associations.)

Title: Dollars at the Door.
Subject: Success story of drycleaner using Sanitone advertising materials.
Projection: 16 mm, sound, color, 22 minutes.
Produced by: Emery Industries, Inc.
Distributed by: Sanitone engineers.
Terms: Loan. Sanitone representative to be present at showing.

Title: Formatic Shirt Unit.
Subject: Shirt production.
Projection: 16 mm, silent, black-and-white.
Produced by: The American Laundry Machinery Co.
Distributed by: Local representatives, branch and division offices of The American Laundry Machinery Co.
Terms: Loan.

Title: It's All in the Finish.
Subject: Application and effects of synthetic-resin fabric finishes.
Projection: 16 mm, sound, color, 23 minutes.
Produced by: American Cyanamid Company, Textile Resin Department.
Distributed by: Vacuumate Corporation, 446 W. 43rd St., New York 18, N. Y.
Terms: Loan; borrower pays return shipping charge.

Title: Leave Less to Luck.
Subject: Soil removal and its research basis.
Projection: 16 mm, sound, color, 35 minutes.
Produced by: The Procter & Gamble Company.
Distributed by: Mr. D. E. Tuttle, Laundry Research Department, Procter & Gamble, Ivorydale 17, Ohio.
Terms: Loan.

Title: More Dangerous Than Dynamite.
Subject: Dangers of home drycleaning and other home fire hazards.
Projection: 16 mm, sound, black-and-white, 10 minutes.
Produced by: Bureau of Communications Research.
Distributed by: State Fire Marshal, 507 Polk St., San Francisco 2, Calif., or National Board of Fire Underwriters, San Francisco, Calif. (west of Rockies); Bureau of Communications Research, 13 East 37th St., New York 17, N. Y.
Terms: Loan; borrower pays return shipping charge.

Title: One-Operator Silk Finishing Unit.
Subject: Installation, layout and operation of Excelsior one-operator unit.
Projection: 16 mm, sound, black-and-white, 25 minutes.
Produced by: Excelsior Machinery Company.
Distributed by: Excelsior Machinery Company, 1452 Randolph St., Detroit 26, Mich., or local distributors of Excelsior equipment.
Terms: Loan.

Title: One Way To Finish a Sack Coat.
Subject: Steps in sack-coat finishing.
Projection: 16 mm, sound, black-and-white, 13 minutes.
Produced by: National Institute of Drycleaning.
Distributed by: National Institute of Drycleaning, Silver Spring, Md.
Terms: Sale or loan, to NID members only. Available for association programs.

Title: Please Pass the Condensate.
Subject: Steam trapping for more production.
Projection: 16 mm, sound, color, 20 minutes.
Produced by: Yarnall-Waring Co.
Distributed by: Yarnall-Waring Co., Philadelphia 18, Pa.
Terms: Loan.

Title: Protecting Your Profits.
Subject: Equipment maintenance.
Projection: 16 mm, sound, color.
Produced by: The American Laundry Machinery Co.
Distributed by: Local representatives, branch and division offices of The American Laundry Machinery Co.
Terms: Loan.

Title: Training by Seeing—and Doing.
Subject: Steps in trouser finishing.
Projection: 16 mm, sound, black-and-white, 12-15 minutes.
Produced by: National Institute of Drycleaning.
Distributed by: National Institute of Drycleaning, Silver Spring, Md.
Terms: Sale or loan, to NID members only. Available for association programs.

Title: What's in Store for Laundries?
Subject: Merchandising.
Projection: 16 mm, sound, color.
Produced by: The American Laundry Machinery Co.
Distributed by: Local representatives, branch and division offices of the American Laundry Machinery Co.
Terms: Loan.

Business—General

Title: All I Can Do.
Subject: Sales training.
Projection: 16 mm, sound, black-and-white, 23 minutes.
Produced by: Coopers, Inc.
Distributed by: Modern Talking Picture Service, Inc., 45 Rockefeller Plaza, New York 20, N. Y.
Terms: Loan; borrower pays shipping charges.

Title: The Easier Way.
Subject: Principles of motion study.
Projection: 16 mm, sound, black-and-white, 13 minutes.
Produced by: General Motors Corporation.
Distributed by: General Motors Corporation, 405 Montgomery St., San Francisco 4, Calif. (Western states); Department of Public Relations—Film Section, 1775 Broadway, New York 19, N. Y. (Metropolitan New York and Long Island); Department of Public Relations—Film Section, General Motors Bldg., Detroit 2, Mich. (other states)
Terms: Loan; shipped parcel post; express collect if requested.

Title: Experiment.
Subject: How to get along with people; humorous treatment.

Projection: 16 mm, sound, black-and-white, 12 minutes.
Produced by: General Motors Corporation.
Distributed by: See under "The Easier Way."
Terms: See under "The Easier Way."

Title: The Flow Process Chart and How To Use It.
Subject: Analysis of work operations.
Projection: 16 mm, sound, color, 1½ reels.
Produced by: Castle Films.
Distributed by: Castle Films, Division of United World Films, Inc., 1445 Park Ave., New York 29, N. Y.
Terms: Sale only: \$87.85, less 10 percent to nonprofit organizations.

Title: The Invisible Receptionist.
Subject: Courteous, efficient handling of customers by switchboard attendants.
Projection: 16 mm, sound, black-and-white, 21 minutes.
Produced by: Bell Telephone System.
Distributed by: Any Bell System company in U. S. or Canada.
Terms: Loan.

Title: Selling America Today.
Subject: Benjamin Franklin on sales training.
Projection: 16 mm, sound, black-and-white, 35 minutes.
Produced by: General Motors Corporation.
Distributed by: See under "The Easier Way."
Terms: See under "The Easier Way."

Title: Strange Interview.
Subject: Benjamin Franklin on employer-employee relations.
Projection: 16 mm, sound, black-and-white, 55 minutes. (Requires projector to handle 2000-foot, 17-inch reel. A 2000-foot take-up reel shipped with film. Also available on two 1200-foot reels.)
Produced by: General Motors Corporation.
Distributed by: See under "The Easier Way."
Terms: See under "The Easier Way."

Title: Telephone Courtesy.
Subject: Good telephone habits in business.
Projection: 16 mm, sound, black-and-white, 25 minutes.
Produced by: Bell Telephone System.
Distributed by: Any Bell System company in U. S. and Canada.
Terms: Loan.

Title: Thanks for Listening.
Subject: Value of good telephone habits to business users.
Projection: 16 mm, sound, black-and-white, 30 minutes.
Produced by: Bell Telephone System.
Distributed by: Any Bell System company in U. S. or Canada.
Terms: Loan.

Safety, Health and Maintenance

Title: Basic Principles of Lubrication.
Subject: Truck lubrication.
Projection: 16 mm, sound, black-and-white, 25 minutes.
Produced by: General Motors Corporation.
Distributed by: General Motors Corporation (see under "The Easier Way").
Terms: See under "The Easier Way."

Title: Color Conditioning.
Subject: Use of paint and light to improve efficiency and morale.
Projection: 16 mm, sound, color, 2 reels.
Produced by: E. I. du Pont de Nemours & Co., Inc.
Distributed by: E. I. du Pont de Nemours & Co., Inc., Motion Picture Distribution, Wilmington, Del.
Terms: Loan.

Title: Day in Court.
Subject: Traffic safety.
Projection: 16 mm, sound, black-and-white, 30 minutes.
Produced by: International Harvester Company.
Distributed by: Modern Talking Picture Service, Inc., 45 Rockefeller Plaza, New York 20, N. Y.
Terms: Loan; borrower pays shipping charges.

Title: Here's the Dope.
Subject: Route salesman ignores safety rules and lands in hospital.

Projection: 35 mm, sound, black-and-white, 15 minutes.
Produced by: Zurich Insurance Company.
Distributed by: Local Zurich Insurance Company agent. Write for name to Zurich Insurance Companies, 135 S. La Salle St., Chicago 3, Ill.
Terms: Loan.

Title: Light Is What You Make It.
Subject: Importance of good light to vision.
Projection: 16 mm, sound, color, 10 minutes.
Produced by: Walt Disney cartoon.
Distributed by: Pennsylvania College for Women, PCW Film Service, Pittsburgh 7, Pa.
Terms: Rental.

Title: Live—and Let Live.
Subject: Highway safety.
Projection: 16 mm, sound, color, 10 minutes.
Produced by: Aetna Life Affiliated Companies.
Distributed by: Aetna Life Affiliated Companies, Public Education Department, Hartford 15, Conn. Branch offices or local representatives of Aetna Casualty and Security Company.
Terms: Loan; borrower pays return shipping charge. Sale: \$51.

Title: No Use Skidding.
Subject: How to avoid hazards of winter driving.
Projection: 35 mm slidefilm, sound, black-and-white, 20 minutes.
Produced by: National Safety Council.
Distributed by: National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.
Terms: Loan; Borrower pays shipping charges. Sale: \$10.

Title: P. U. D. Driver Wins Again.
Subject: Typical day of pickup-and-delivery driver.
Projection: 35 mm slidefilm, sound, black-and-white, 20 minutes.
Produced by: National Safety Council.
Distributed by: National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.
Terms: Rental: \$5 per week, return shipping charge. Sale: \$20.50.

Title: Screw Drivers and Screw Jays.
Subject: Highway safety; humorous treatment.
Projection: 16 mm, sound, black-and-white, 12 minutes.
Produced by: Shell Oil Company.
Distributed by: Shell Oil Company, Film Library, 100 Bush St., San Francisco 6, Calif.; Shell Building, Houston 1, Texas; 624 S. Michigan Ave., Chicago 5, Ill.; 50 W. 50th St., New York 20, N. Y.
Terms: Loan; borrower pays return charge.

Title: Stop Fires, Save Jobs.
Subject: How industrial fires start; what to do about them.
Projection: 16 mm, sound, black-and-white, 19 minutes.
Distributed by: National Board of Fire Underwriters Film Library, Bureau of Communications Research, Inc., 13 E. 37th St., New York 17, N. Y.
Terms: Loan or purchase.

Title: The Walking Machine.
Subject: Foot hygiene and shoe selection.
Projection: 16 mm, sound, black-and-white, 14 minutes.
Produced by: American Foot Care Institute, Inc.
Distributed by: American Foot Care Institute, Inc., 1775 Broadway, New York 19, N. Y.
Terms: Loan; borrower pays return shipping charge.

Title: A Way With Fires.
Subject: Proper operation of various types of fire extinguishers.
Projection: 16 mm, sound, black-and-white, 30 minutes.
Distributed by: American Telephone & Telegraph Co., 195 Broadway, New York 7, N. Y.
Terms: Loan.

Title: What's Your Safety I.Q.?
Subject: Quiz on off-the-job safety, audience participation.

Projection: 16 mm, sound, black-and-white, 15 minutes.
Produced by: National Safety Council.
Distributed by: National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.
Terms: Rental: \$5 per week, return shipping charge. Sale: \$52.

General

Title: Backfire!
Subject: Defense of free enterprise.
Projection: 16 mm (also available 35 mm), sound, black-and-white, 15 minutes.
Produced by: American Economic Foundation and Princeton Film Center, Inc.
Distributed by: American Economic Foundation, 295 Madison Ave., New York 17, N. Y. (Also available on loan)

Terms: to NID alumni from Miss Edna Michelsen, National Institute of Drycleaning, Silver Spring, Md.)
 Sale: \$75 postpaid.

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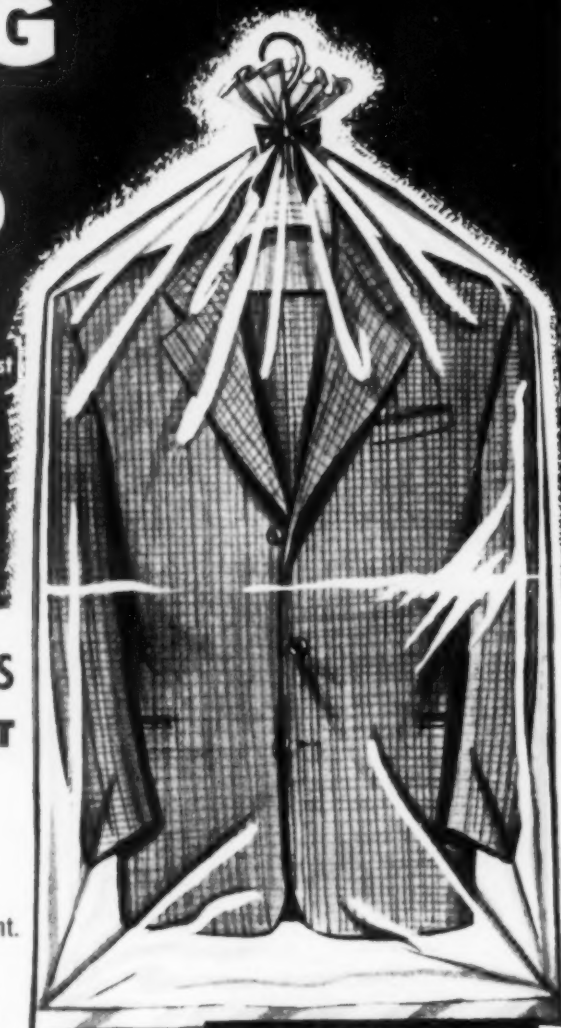
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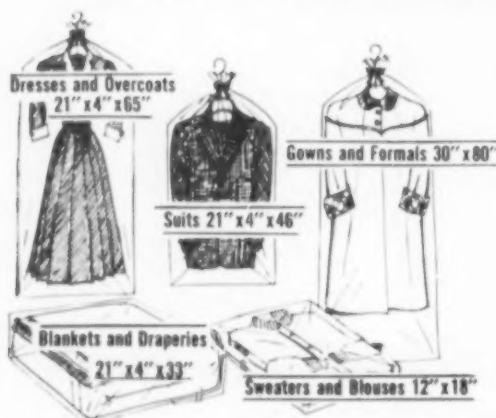
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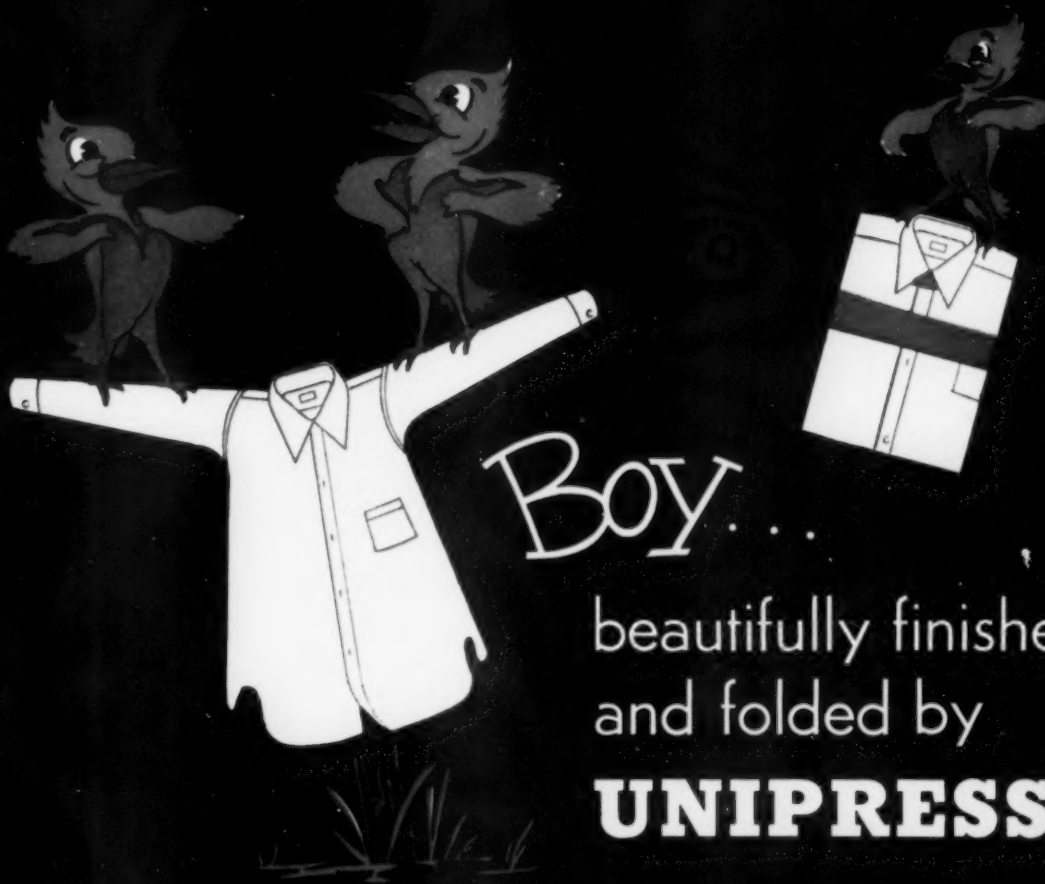
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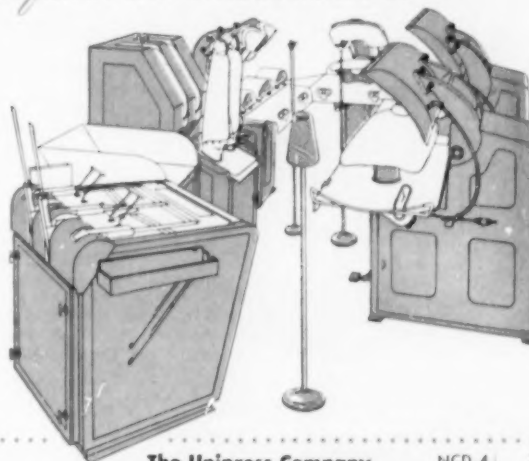
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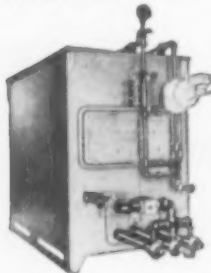
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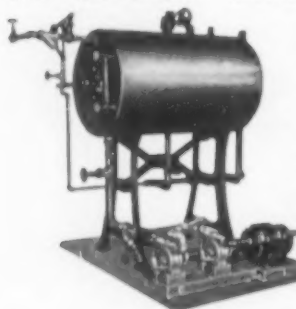


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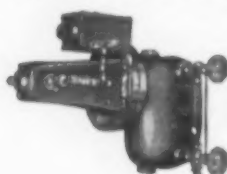
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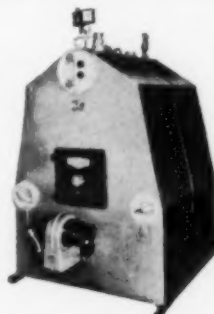
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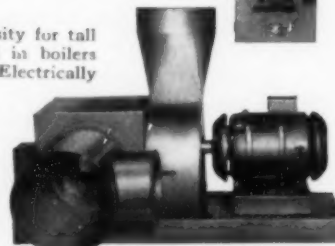
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Having supplied the drycleaning industry for over 30 years, Stauffer has the experience and ability to judge and meet the demands for top quality products. Now, you can get Stauffer Dry Cleaners' Grade Perchloroethylene, when you want it, as you want it.

Extensive research studies have been carried out to select the best inhibitor to insure maximum protection for dry cleaning equipment. Non-flammable, non-explosive Stauffer Dry Cleaners' Grade Perchloroethylene also meets the specifications of the National Institute of Drycleaning.

Your distributor will be glad to supply you with Stauffer Dry Cleaners' Grade Perchloroethylene shipped in non-returnable drums, rust-proofed inside and out. Look for the distinctively designed 55-gallon drums, each containing 3 bungs to allow convenient handling in any equipment set-up.

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Hey Mister,
This Reclaimer
is Really **BUILT!**



LOOK! It's a cinch to clean *this* Lint Trap — a matter of seconds. And don't forget, a clean lint trap means fast, high reclamation.

HOYT LARGEST MANUFACTURER
OF DRYERS EXCLUSIVELY

MODEL A — Cap. 20 lbs.	\$1095.00
MODEL B — Cap. 30 lbs.	1195.00
MODEL C — Cap. 40 to 50 lbs.	1295.00
MODEL D — Cap. 60 to 75 lbs.	1895.00

HOYT MANUFACTURING CORP., WESTPORT, MASS.

National

products that
make their mark

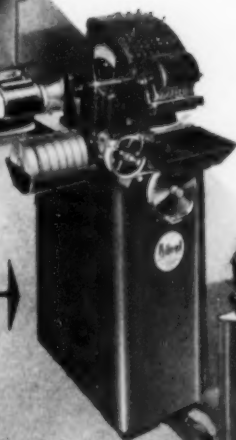
National

Lever Principle
Hand Marking Ma-
chines... standard
equipment in small
laundries.



National

Power Tag-
Making Machines... a favorite
with large dry cleaners.



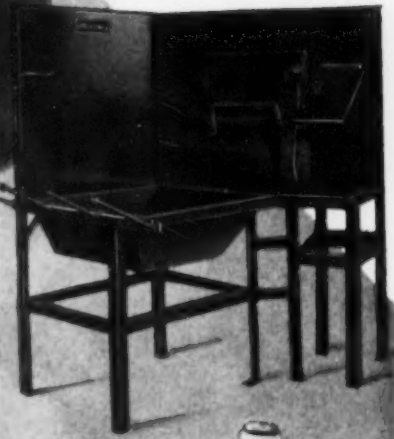
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Power-operated
Marking Machine No. 8... a must in
large laundries.



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Marking and Breaking Tables
... used where speed and efficiency are vital.



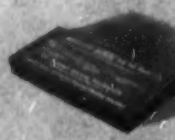
National

Net Pins for quality that means long life.



National

All-Wool Felt Pads.



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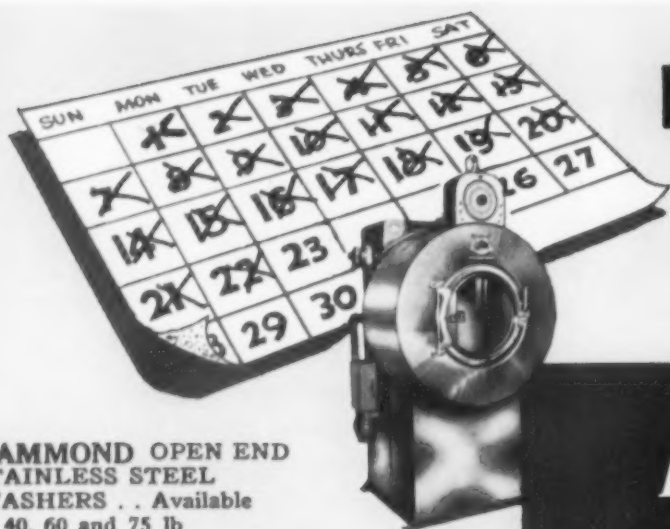


THE

National

MARKING MACHINE COMPANY

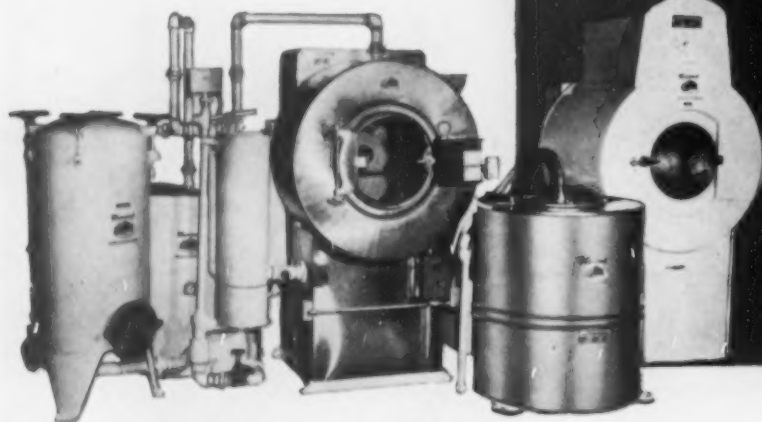
4026 CHERRY STREET • CINCINNATI 23, OHIO



**HAMMOND OPEN END
STAINLESS STEEL
WASHERS** . . Available
in 40, 60 and 75 lb
capacities.



**HAMMOND 25 lb
MIDGET MATIC
WASHERS**



HAMMOND ATOMIC DRY CLEANING UNIT
Available in 10 suit or 20 suit
sizes. Automatic or manual.

**DAY IN...
DAY OUT**

HAMMOND Laundry --

Performs BETTER

FAMOUS HAMMOND PATENTED
MECHANICAL DRIVES
AND REVERSE

PRECISION AUTOMATIC CONTROLS
DEVELOPED AND USED
EXCLUSIVELY BY HAMMOND

STREAMLINED DESIGN FOR
BETTER PERFORMANCE

EXTERIOR BEAUTY

HAMMOND Laundry-

YEAR IN.. YEAR OUT



Cleaning Equipment *Lasts LONGER*

BUILT TO GIVE YEARS OF
UNINTERRUPTED SERVICE

ULTIMATE IN SIMPLICITY AND
ACCESSIBILITY

CONVENIENT FLOOR DIMENSIONS

ALL STAINLESS STEEL
CONSTRUCTION

Hammond
LAUNDRY-CLEANING MACHINERY CO.

HAMMOND BUILDING WACO, TEXAS



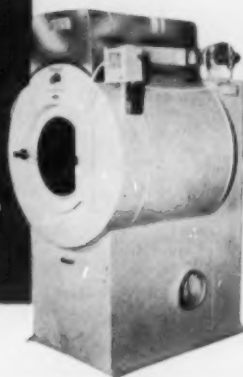
HAMMOND
36 x 30 OPEN END
STEAM HEATED
TUMBLER



HAMMOND
WIZARD EXTRACTOR
Available in 17-20-24-26-30
inch sizes.



HAMMOND
25 gallon capacity
stainless steel
STARCH COOKER



HAMMOND 36 x 30 OPEN END
GAS FIRED TUMBLER

Cleaning Machinery Co.

WACO, TEXAS

HEADQUARTERS FOR SUPPLIES AND EQUIPMENT



GARMENT RACKS SPECIAL... Painted Reconditioned Pipe

\$12.50

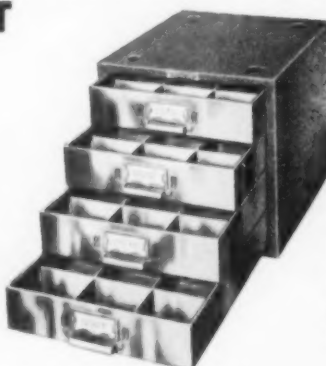
Other Types Available—
ALSO CHROME FINISH

6 ft. long, 5 1/2 ft. high with set
of 3" rubber swivel casters.

Castors Only—3"\$4.75 set
4"\$6.00 set

UTILITY CABINET

- All Steel
- 4 Drawer
- Sectional
- Removable Drawer Dividers
- Safety Drawer Stop Eliminates Spilled Contents
- 10" Wide, 11 1/2" Long, 10" High
- Steel Gray Ripple Finish



\$6.95 each
\$6.25 lot of 4
F.O.B. N. Y.

PARTS CABINETS with PLASTIC CRYSTAL DRAWERS

- All cabinets supplied with dividers
- Available in 3 color combinations

16 Drawer \$6.65
24 Drawer \$8.95
32 Drawer \$11.65
48 Drawer \$18.00

HAND PUMPS

Fit any drum size

For Soap & Spotters . \$4.75

Solvent \$7.50

PLASTIC RACK DIVIDERS

LARGE 11"

A to Z \$5.50 set
Blank20 ea.
Numbered22 ea.

ROUND 3 1/2" DIAM.

A to Z \$3.75 set
Mon-Sat \$1.00 set
1-10 \$1.75 set
Blank12 ea.

FLUORESCENT LIGHTING

Fixture Using two
40 Watt Lamps, . . . \$11.00

Ask for complete catalogue of all
models and current prices . . . Only
If You Contemplate ordering.

Check With Order

CLEANERS SALES & EQUIPMENT CORP.

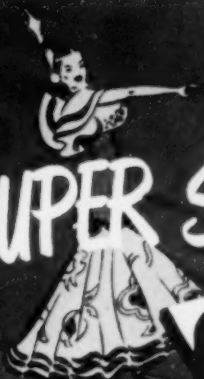
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New York 7, N. Y.

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SUPER STAR

in the
CLEANING WORLD'S
FIRMAMENT...



POTENT... POWERFUL... DETERGENT

CHARGEIT

with CHLOROPHYLL

HIGHER
SOIL
REMOVAL

REDUCED
LINTING

ODORLESS
PER-
FORMANCE

FASTER
ACTION

NO
DISTILLATION
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PRESSURE

NU-PRO

...the

SUPER CHARGE

for CHARGE SYSTEMS

that MEANS NEW

CLEANING EFFICIENCY

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TRY IT...FOR TOP RESULTS and SEE!

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SEE YOUR NU-PRO JOBBER...
FIELD MEN WILL DEMONSTRATE...
OR WRITE US DIRECT FOR TRIAL ORDER

ANSWERS

TO QUESTIONS ON DRY CLEANING

... THAT MAY SOLVE A PROBLEM FOR YOU

Q. After using a charged soap system for about six months we had to replace the copper heating coils in our still. Our soap salesman insists his product neither reacts with perchlorethylene nor corrodes copper. What do you think?



A. At elevated temperatures copper reacts with fatty acids which may come from garments and soap. The resultant copper-fatty acid compound dissolves in perchlorethylene. Thus copper is removed from the coils and coil perforation follows. Our recommendation: Replace the copper with iron coils or tinned copper coils and clean your still more often. Ask the salesman if the soap contains any fatty acid.

Q. I am using a charged soap system without rinsing. The still residue builds up rapidly and the distilled solvent comes over cloudy even before much residue has formed. Why is this?



A. The cloudiness of the solvent indicates the presence of water, a normal result of using high moisture content charged systems. Most soaps suitable for charged systems contain dispersing or emulsifying solvents that make possible the filtering of the charged solvent containing water.

When distillation occurs water is driven over with the solvent. If the soap has a volatile emulsifying or dispersing agent, some of it will carry over too, preventing separation of the water from the solvent in the water separator. This condition is made worse by the use of high steam pressures. Lowering the steam pressure below 55 lbs. affords

temporary relief but does not remove the problem completely.

Q. Since I started to use a strong soap charged system, I get cloudy solvent from the condenser. How can I correct this?



A. Try adding a rag filter to the condensate line ahead of the water separator. This will tend to coagulate the water so that it will separate in the water separator. Or you can pass the cloudy solvent from the water separator through a bed of soda ash about an inch thick. Soda ash in effect dries the solvent, removes any small amount of acid present and permits final removal of cloudiness.

Q. My cleaning machine has been corroding badly since I began using a charged soap system. Has the soap anything to do with this?



A. Only indirectly. Because extra moisture is added to the bath, the solvent is saturated with water all the time. And where the moist air and the moisture in the solvent comes in contact with metal surfaces inside the machine, corrosion occurs. Only very resistant metals can withstand alternate washings of perchlorethylene and water.

We advise that you clean out the machine and distill the solvent carefully using a rag filter ahead of the water separator. This should prevent any corrosion of the storage tank. Also reduce the humidity in the system to prevent corroding other areas.

DU PONT "PERCLENÉ" PERCHLORETHYLENE CLEANING FLUID

You get fast, sure dry cleaning at lowest possible cost with Du Pont "Perclene" Perchlorethylene. This top-quality solvent is made especially for the industry by the pioneer manufacturer of synthetic solvents for dry cleaning. Widely used throughout the trade, it combines non-flammability and high purity with the effectiveness you need to meet all demands of modern cleaning.

Du Pont Dry Cleaning Service

As always, Du Pont is ready to help you with all phases of your cleaning program. We'll be glad to show you how to get the most from your dry cleaning unit . . . how to maintain maximum efficiency. Having pioneered the field of dry cleaning solvents, we're in an ideal position to pass technical "know-how" along to you. Just get in touch with your Du Pont "Perclene" Distributor for this expert service, or write to: E. I. du Pont de Nemours & Co. (Inc.), Electrochemicals Department, Wilmington 98, Delaware.

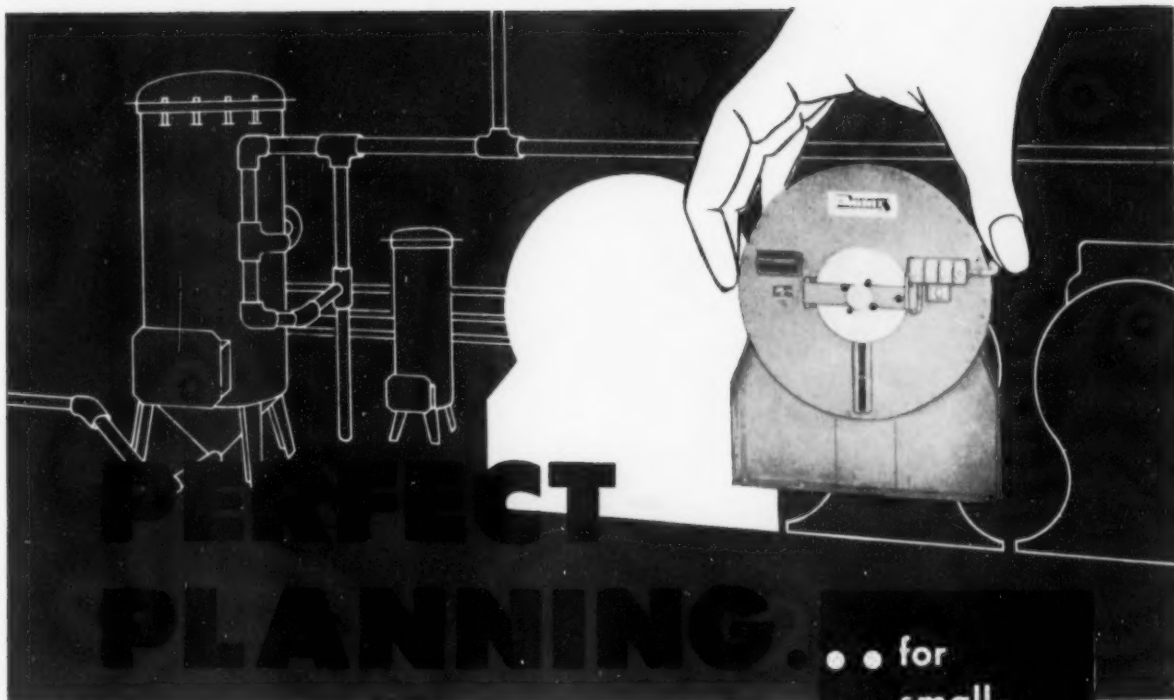
THE SIGN OF QUALITY DRY CLEANING



Ask your "Perclene" distributor how you can display the Du Pont decal to help you build customer confidence



Better Things for Better Living
... through Chemistry



"100" WASHEX

COMBINATION WASHER - EXTRACTOR

with Cyclonic Cleansing Action

ideally suited to use with strong soap

• • for
small-
medium
plants!

Before you make a move . . . see first how the "100" WASHEX COMBINATION WASHER-EXTRACTOR fits into your blueprint for profits!

There's a *new kind* of cleaning room experience in store for you with the remarkable "100" WASHEX that *washes and extracts* in a simple "push-button" cycle . . . stops costly waste of time and labor right in the heart of your plant.

Based on performance in outstanding conventionally operated plants throughout the country, the "100" WASHEX is creating an interesting cleaning room trend by proving savings of labor in excess of 50% . . . ad-

ditional savings can be realized by the use of strong soap which greatly reduces wet cleaning and spotting . . . reducing solvent loss through spillage and evaporation . . . eliminating the hazard of solvent-soaked garments . . . lowering of finishing costs.

Another WASHEX exclusive, Cyclonic Cleansing Action, is speedy, thorough and gentle; insures faster soil removal and greater quality.

Next time you walk into your cleaning room, think of what the "100" WASHEX COMBINATION WASHER-EXTRACTOR can do for you!

Write for complete information and literature.



WASHEX MACHINERY CORPORATION

192 BAKER STREET

BROOKLYN 22, N. Y.



ROBERT C. MILLER, owner,
Miller Bros. Laundryfold
Automatic Laundry,
St. Petersburg, Fla.

SERVICE SHE EXPECTS includes both courtesy and the accurate National printed, itemized receipt with item-by-item indication.

"Our National System
saves us \$2,500 a year...
pays for itself every 9 months!"

—Miller Bros. Laundryfold, St. Petersburg, Fla.

"It is a pleasure," writes Robert C. Miller, "to operate under our National System. We handle anywhere from 100 to 200 customers daily and they get fast, accurate, courteous service. At the same time, we have to keep complete track of our business. Our National System, gives them the service they expect, and us, the tight control we need.

"Previously we experienced losses of \$20 to \$30 per day and more. Now our National's separate cash drawers fixes responsibility for cash handling with each salesperson. The National printed, itemized receipt, with item-by-item indi-

cation, has stopped costly mistakes in addition and speeded our customer service. Automatically, at the end of the day, we get a complete breakdown on sales by department and salesperson—invaluable as far as control is concerned. Because our National System does so much of the figure work automatically, we save about 20 hours weekly in balancing cash and getting sales records. Plus a saving on bookkeeping salary.

"We can honestly say that in the first year, our National System saved us \$2,500. Indeed, it paid for itself in only 9 months!"

Want to save money... make more profit? Your nearby National representative, a trained systems analyst, will gladly give you full details on a National System specially adapted to meet the needs of your business. Call him today.

*TRADE MARK REG. U. S. PAT. OFF.

National
CASH REGISTERS • ADDING MACHINES
ACCOUNTING MACHINES

THE NATIONAL CASH REGISTER COMPANY, Dayton 9, Ohio
949 OFFICES IN 94 COUNTRIES

Eaton's

"CHARGE"

CLEANING SYSTEM

FORMULATION NO. 14174

Eaton's Formulation No. 14174 "CHARGE SYSTEM" operates at 1%. It does not require additional rinsing equipment or gadgets to control, or indicate, moisture in the process.

Using Formulation No. 14174 according to our very simple directions, your cleaning results will be comparable to any in the industry.

In addition to these advantages, our "CHARGE SYSTEM" offers you a bonus by enabling you to include SIZIN—our water-soluble, synthetic-resin sizing—in the cleaning cycle, which facilitates the finishing of all materials.

Why Experiment—Use Eaton Products

Distributors Everywhere

Established
in the year
1838

EATON CHEMICAL AND DYESTUFF COMPANY

1490 FRANKLIN ST. • DETROIT 7, MICHIGAN • Canadian Plants: Windsor and Toronto
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NO SUMMER

IF
SUMMER
DRESSES, SLACKS
AND SPORT SHIRTS
ARE KEPT OUT
OF THE HOME
WASHER



SLUMP

YOU CAN DO IT WITH

REE-DRAPE

Which Gives Garments a New Body, Feel and Finish

NO FRANCHISE FEE

REE-DRAPE is liquid. Mixes easily with petroleum or synthetic cleaning solvent.

REE-DRAPE is removed in dry cleaning so does not build up with repeated application.

REE-DRAPE is harmless to natural and synthetic fabrics.

REE-DRAPE is odorless, neutral and not sticky.

REE-DRAPE is non-toxic and harmless to skin.

REE-DRAPE is not affected by perspiration.

REE-DRAPE increases spot resistance, reducing future spotting.

REE-DRAPE reduces finishing cost through easier pressing.

REE-DRAPE and Riverside Dry Cleaning Detergents are made to Work Together.

REE-DRAPE will delight your customers for washable dresses, slacks, sport shirts, playsuits... Yes, even men's suits keep their shape longer and look better. Also does an outstanding job of sizing felt hats.

5 GALLON CAN, Per Gal. . . . \$395

RIVERSIDE

RIVERSIDE MFG. CO.
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ST. LOUIS 9, MISSOURI

REE-DRAPE

Can Be Applied By:

- *The Dip Method*
- *In The Wheel*
(WITH PROPER SET-UP)
- *By Spraying*
IF NECESSARY

YOUR COST

As Low As ¼¢ for a
Silk or Rayon Dress
... Less Than 1¢ for
a Man's Suit

SEE The Difference!
FEEL The Difference!
THIS GARMENT
HAS BEEN
TREATED
WITH

REE-DRAPE

TO
RESTORE
BODY, FEEL
AND FINISH

Your Cotton, Linen, Silk, Wool,
Rayon and other Garments will
Look Better and Keep their
Shape Longer when we Clean
and Treat them with REE-DRAPE.

These
BUTTON TAGS
Are Available

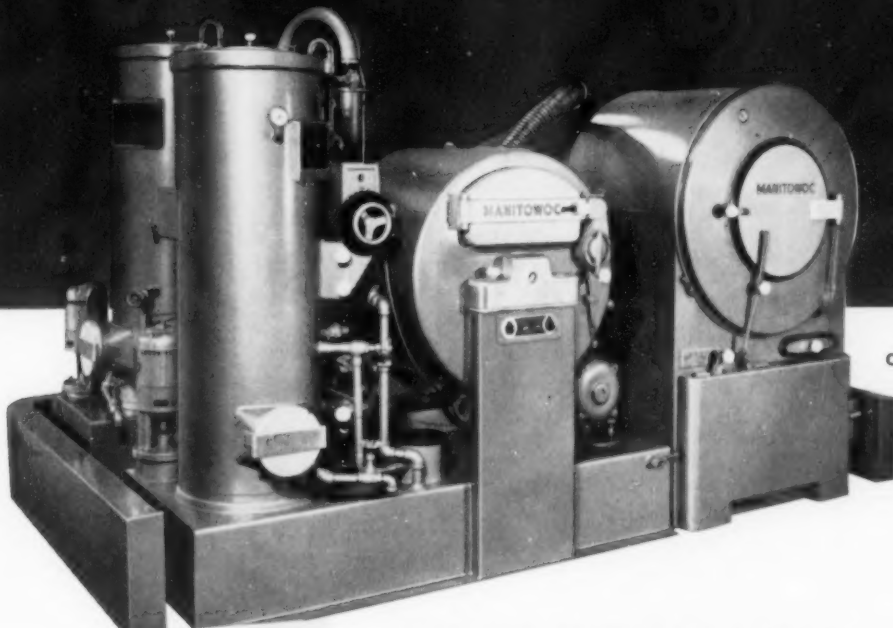
Hang them on garments to tell your customers you made them look like new.

Price \$4.25 per
1000, Postage Paid
Billing through
Distributor

Manitowoc Synthetic System

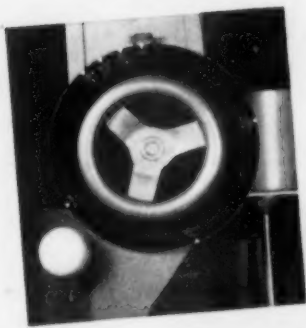
2-BATH

BIG CAPACITY AND BETTER QUALITY... AT LOWEST COST



\$6860⁰⁰

COMPLETE 2-BATH UNIT
F.O.B. MANITOWOC



SELECTO-CYCLE Control
Finest feature of any — "Selecto-Cycle" — controls SSS System electrically and mechanically. Enables you to adjust sequence of operations and time, to suit nature of load. More simple, more flexible, more practical than any other.

105-120 Pounds Per Hour! Cuts Steam Cleaning-Spotting!

MANITOWOC'S new "900" 2-Bath system is the talk of the dry-cleaning industry! Here is a complete profit-producing package that's simple in design, simple to operate and packed with advantages and performance features.

You Get Big Capacity — The dual drums enable you to turn out 105-120 pounds of dry cleaning per hour. No wasted time or manpower — *wash while you tumble.*

You Get Better Quality — each of the drums is specifically designed for the job it does — your work comes out cleaner, brighter.

You Get Amazing Selecto-Cycle — Utmost flexibility whether you work with solvent alone — or with strong soap and solvent rinse.

You Get all of these advantages at the *lowest cost possible.* Get the greatest return on your equipment investment dollar — get the facts on Manitowoc. Send for complete details.

Manitowoc *Synthetic*
PERCHLOR DRY CLEANING UNIT

MANITOWOC ENGINEERING CORP.
512 - 16th Street
MANITOWOC, WISCONSIN

COLUMBIA-SOUTHERN PERCHLORETHYLENE

...Your best choice!

CHECK THESE POINTS!

PRODUCT



Manufactured to highest standards, you can be certain of consistent top quality and good stability.

EXPERIENCE



Columbia-Southern has been producing quality chemicals for over half a century. Personnel are carefully selected and trained.

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Columbia-Southern's Perchlorethylene plant at Barberton, Ohio, is among the most modern.

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You can always depend on supply because Columbia-Southern is the world's largest merchant producer of chlorine, the basic raw material in Perchlorethylene.

SERVICE



Distributors have been selected for their alertness, progressiveness, and good service. There is one located near you.

DRUM DESIGN



The most practical Perchlorethylene drum devised. Saves lifting and struggling; prevents accidents. Can be emptied from the top with centrifugal pump.

**COLUMBIA-SOUTHERN
PERCHLORETHYLENE**

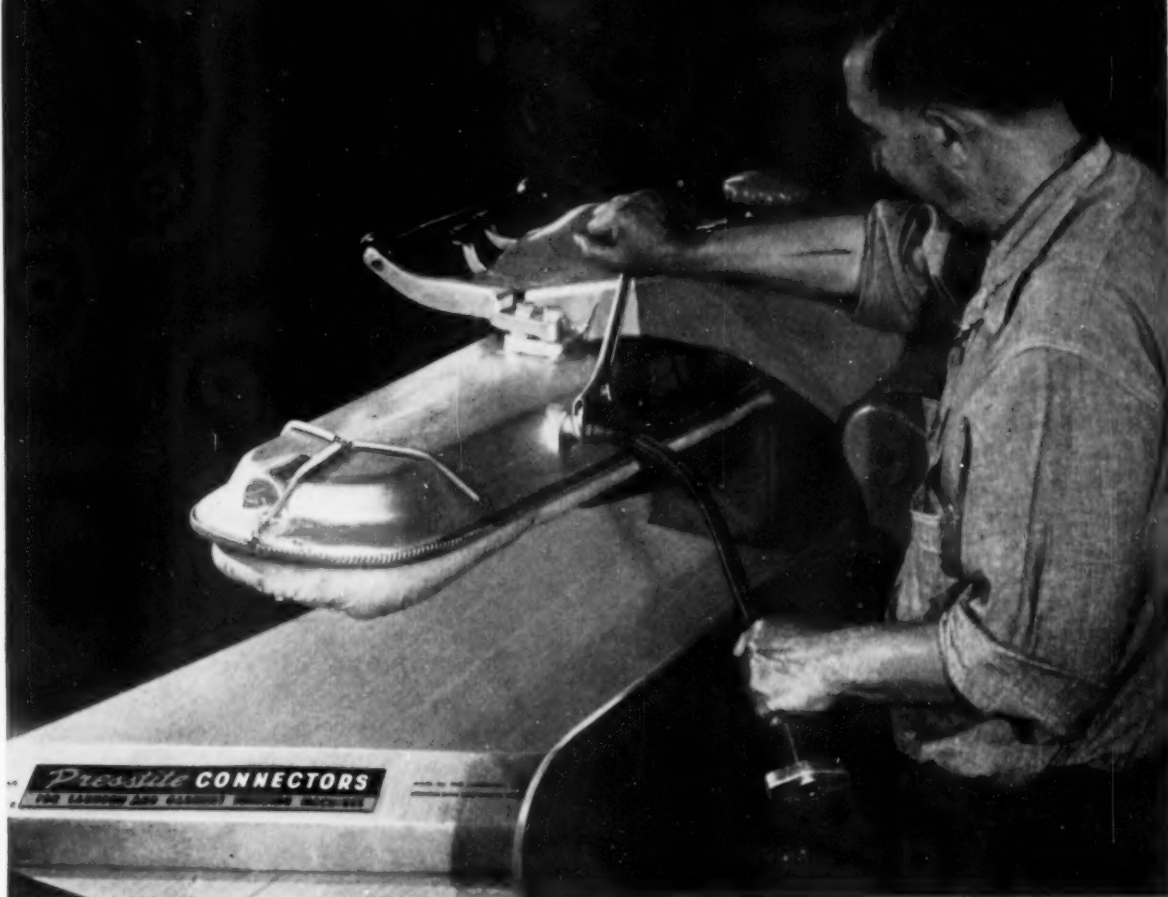
**SEE YOUR
DISTRIBUTOR
NOW!**



**COLUMBIA-SOUTHERN
CHEMICAL CORPORATION**
SUBSIDIARY OF PITTSBURGH PLATE GLASS COMPANY
ONE GATEWAY CENTER • PITTSBURGH 22 • PENNSYLVANIA

DISTRICT OFFICES: CINCINNATI • CHARLOTTE • CHICAGO • CLEVELAND
BOSTON • NEW YORK • ST. LOUIS • MINNEAPOLIS • NEW ORLEANS
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PRESS CONNECTORS



Back on the job in minutes

Case history of a connector breakdown:
10:00 A.M. *Steam connector needs replacing. Work stops.*

10:05 A.M. *Foreman brings in new PRESSTITE® connector from stock-room.*

10:10 A.M. *New PRESSTITE is quickly installed without special tools.*

10:11 A.M. *Work resumes.*

MORAL: order extra pairs of PRESSTITE steam connectors from your jobber now and keep them in stock for emergencies. They install in minutes . . . do away with long repair tie-ups that cut into profits.

Chances are, your presses are already equipped with PRESSTITES, since

9 out of 10 press manufacturers install them as original equipment. So take a tip from the manufacturer. When replacement becomes necessary, use time-tested, dependable PRESSTITES. There's one available for every modern press made.

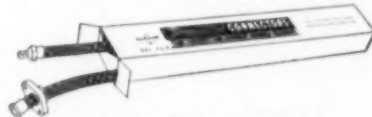
For older machines equipped with swing joints . . .

. . . modernize with American Flexible STEAMTITE® assemblies. They come in complete kits . . . install in a jiffy . . . do away with leaky pipes and joints. STEAMTITES fit single or double-port presses.

Your regular jobber stocks PRESSTITE and STEAMTITE connectors. To order,

just give him your press make and model. He'll see that you get the right assembly. Write for Bulletin L-173R with selection chart to: *The American Brass Company, American Metal Hose Branch, Waterbury 20, Conn. In Canada: The Canadian Fairbanks-Morse Co., Ltd.*

*Reg. U. S. Pat. Off. 43236



AMERICAN

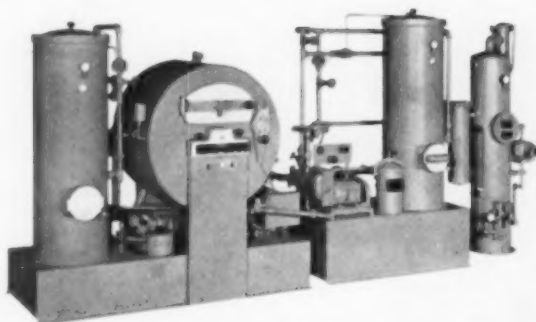
Presstite and Steamtite Connectors
an ANACONDA® product



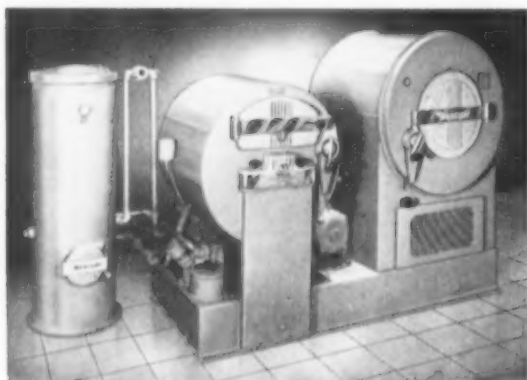
MODERN WASHER-EXTRACTOR UNITS

SAVE LABOR • SAVE SOLVENT • SAVE TIME

- Available in 36-lb. and 48-lb. sizes
- Uses 140° F. or Stoddard Solvent
- Ideal for use with One or Two-Bath Charged Systems
- Low investment, low maintenance
- Compact—minimum floor space
- Semi-automatic or completely automatic—as desired
- Listed by Underwriters' Laboratories, Inc.
- Made by Mercury-experienced builders of washer-extractor units



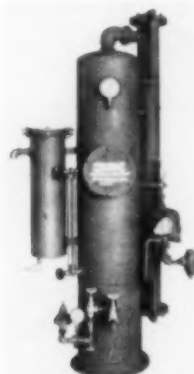
48-lb. Washer-Extractor with back-wash filter, piping and storage tank. Also rinse-tank with back-wash filter, piping, motor driven pump and 50 GPH vacuum Still.



36-lb. Washer-Extractor, tumbler, filter, pump and storage tank in one complete system. \$3195. (Complete)



48-lb. Washer-Extractor. Complete with storage tank, filter and back-wash, valves and piping. Also available in 36-lb. size.



- 50 GPH Vacuum Still**
- Higher quality cleaning; faster drying
 - Less spotting; fewer re-runs
 - Ideal for Charged Systems

OVER 4000 SUCCESSFUL MERCURY OWNERS IN U. S. A.

Write For Further Information

MERCURY CLEANING SYSTEMS, INC.

1817 Benson Ave., Evanston, Illinois • Phone DAvis 8-0710



**Want Clean Solvent?
Low Filter-Pressure?
Rapid Flow?
Less Soap Loss?**

try new
SUPER-SPEED

3 WAYS BETTER . . .


1. **CYCLONE CLEANED** for uniform particle-size with a minimum of "fines" means less filter plugging, lower pressure, longer useful life.
2. **KILN-FLUXED WITH SODA ASH** for surface slickness means speedy flow-rate at any soap concentration.
3. **SNOW-WHITE AND SPONGY** means clean solvent with low soap loss . . . in batch or charged-system operation.



Next time, tell your jobber's salesman you want to try economical
**FILT-R-FAST . . . the super-speed filter powder guaranteed
by the makers of MAGNESOL***

*MAGNESOL is the registered trade mark of Food Machinery and Chemical Corporation for its brand of magnesium silicate adsorptive powder.

*Trade Mark



Reg. U.S. Pat. Off.

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SALES AGENT FOR


WESTVACO CHLOR-ALKALI DIVISION

FOOD MACHINERY AND CHEMICAL CORPORATION

GENERAL OFFICES • 161 EAST 42nd STREET, NEW YORK 17

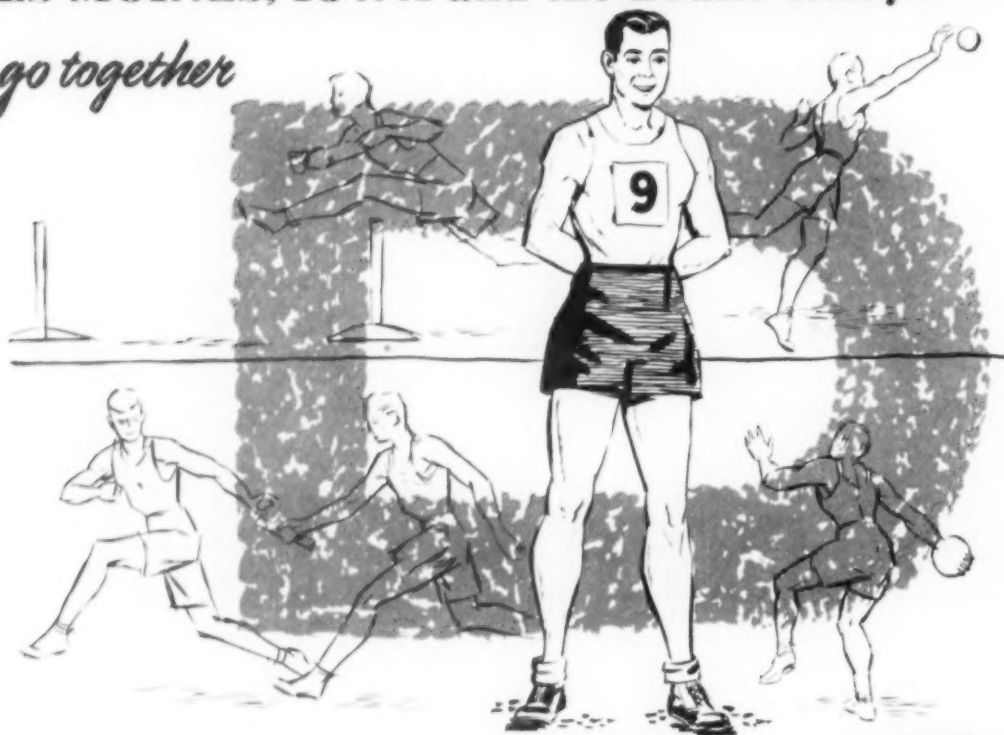
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NEWARK, CALIF. • PHILADELPHIA, PA. • PITTSBURGH, PA. • ST. LOUIS, MO. • VANCOUVER, WASH.



DES MOINES, IOWA and the Drake Relays

go together



like **STOD-SOL** and the **STOD-SOL Test Bundle SERVICE**



NEW SPORTS RECORDS are set every year, due to better training and improved techniques. And every year new profit records are set by drycleaners who improve their technique and workmanship with Stod-Sol, the nation's original drycleaning safety solvent. Together with its companion "Test Bundle Service," Stod-Sol insures top-quality results and maximum efficiency in the plant. Get complete information from your nearest Stod-Sol distributor.

140 - F . . .



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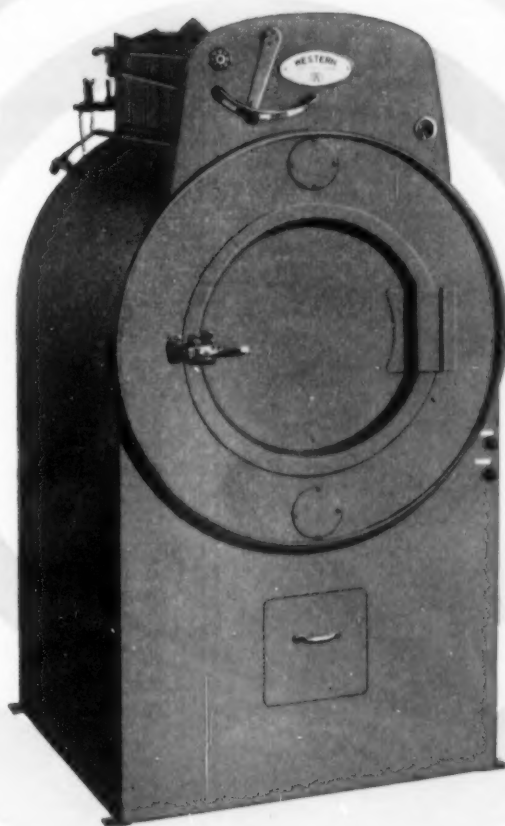
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Anderson-Prichard Oil Corporation

OKLAHOMA CITY, OKLA.

— if it's  **Western** — it's **QUALITY** —

REVERSING DRY CLEANING TUMBLERS



36 x 30 Model
— Illustrated

Reverse tumble action as featured by Western puts an end to tangled, unmanageable, torn clothes... it's truly the advanced design tumbler... no troublesome gears or couplings... investigate now and you too will agree "in tumbler drying today — Western Reverse Action is the way".

3 models available: Laundry—Dry Cleaning or Gas Fired—also non-reversing models.

MANUFACTURED BY



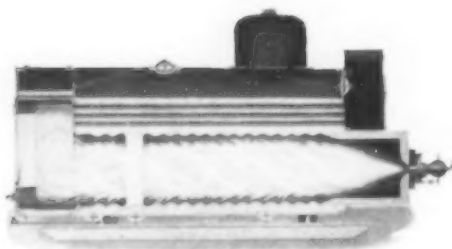
Western
Laundry Machinery Company

Consult Your Jobber Today or
Write Manufacturer for Details

420 E. 10th St., Dept. NC-4

North Kansas City, Mo.

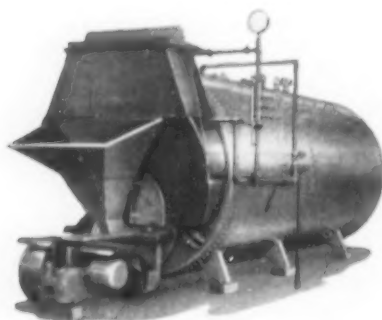
for years and years of efficient, dependable service . . .



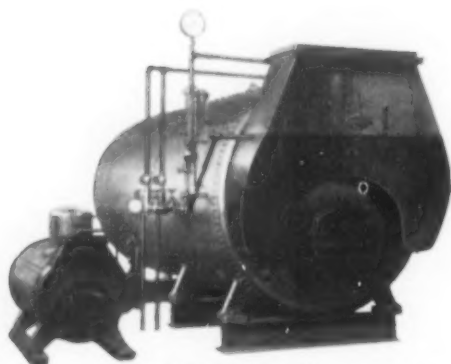
OIL OR GAS FIRED

Leffel

SCOTCH TYPE BOILERS

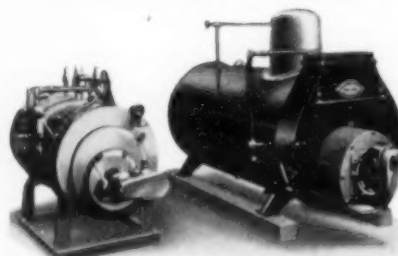


STOKER FIRED



HAND FIRED WITH COAL

Rated the same but . . .



**only the bigger, stronger LEFFEL
can deliver when you need extra steam**

The Leffel boiler on the right, above, is rated at 20 H. P.; so is the little "package-type" steam boiler. All similarity ends with that claimed rating.

The package boiler may deliver 20 H. P.—but no more. The Leffel boiler can be operated day after day at 50 percent above its rating; in an emergency it can deliver up to 40 H. P. with safety.

There is no corner cutting in the construction of a Leffel boiler. It's built to take it. Performance proves that Leffel's extra-rugged construction means greater dependability and longer life, plus the ability to carry a 100% overload in an emergency.

If you're looking for a completely dependable source for low-cost steam, trouble-free service and simple operation, you'll want to know more about Leffel boilers. They are built in a complete range of sizes from the smallest to the largest Scotch types, for oil, gas, or coal firing. Bulletin 236 has all the details; send for your copy today.



THE JAMES LEFFEL & CO.

DEPT. CD, SPRINGFIELD, OHIO, U. S. A.

MORE EFFICIENT STEAM GENERATION FOR 92 YEARS

*the newest
the finest*

CHARGED-SYSTEM DETERGENT

POWER-PAK

**Works in any charged system—1, 2, 3, or 4%—
dilute, regular, or super-charged!**

**Works with the equipment you now have—
no gadgets to buy, none to get out of order!**

If you would like to drastically reduce or even completely eliminate costly wet cleaning and much spotting *under your present charged system set-up*—Power-Pak is right for you! This newest development from Pennsalt can help you turn out far better work, with less trouble, and with a bare minimum of wet cleaning.

The key to this new product's ability is its exclusive Hydratroll action—in effect, its power to make moisture behave, to make it work *for* you, not against you.

You can use the right amount of moisture for each load—even adjusting for humidity conditions of the atmosphere or of the solvent if you wish. You just add a selected amount of a stock solution containing Pennsalt Energex and moisture.

Then, moisture *plus* solvent *plus* Power-Pak go to work to get garments as clean as you've ever seen them come from the washer! Colors gleam, whites sparkle. Cotton parts in suits look like they'd been washed in soap and water. Yet, silks don't take on that dull washed-out appearance.

Power-Pak rinses fast, offers trouble-free distillation and filtering, can be used in dilute or super-charged systems. Best of all, Power-Pak will work with the equipment *you now have*. Nothing extra to buy! No fancy gadgets to get out of order.

Free Technical Service

There is no charge for installing Power-Pak. Experienced Pennsalt technicians, trained to analyze *your* special needs and problems, will help set up your plant to get the very most out of this advanced detergent. A free, easy-to-use test kit is provided with all installations.

We honestly believe Power-Pak is the finest charged-system detergent ever offered to the dry-cleaning industry. Once you use it, we know you will think so, too. Contact your Pennsalt distributor today for further information. Laundry & Dry Cleaning Dept., Pennsylvania Salt Mfg. Co., East: 402 Widener Bldg., Phila. 7, Pa. West: 2168 Shattuck Ave., Berkeley 4, Calif.

POWER-PAK is a trade mark of PSM Co.



**Pennsalt
Chemicals**

USE ARMSTRONG STEAM TRAPS

For Every Unit In Your Plant



800-814 880-882 211-216

THE ARMSTRONG TRAPS recommended and listed on this page will make money for you by:

1. Obtaining maximum production from each steam heated unit,—no air or condensate to lower machine temperature.
2. Preventing any waste of live steam.
3. By working year after year with a minimum of attention.

RECOMMENDED TRAP SIZES TO USE

Chest Type Flatwork Ironers

The recommendations given below apply to machines that have been in service for at least three months and are free from core sand. For new machines install No. 812 or No. 212 traps with generous dirt pockets on each chest or use a master trap until all core sand has been eliminated.

Type	Size	Unit Traps	Master Trap
2-roll	100"	1 No. 812 or 212	
2-roll	120"	1 No. 811 or 211 and 1 No. 812 or 212	1 No. 213
4-roll	100"	2 No. 811 or 211 and 1 No. 812 or 212	
4-roll	120"	2 No. 811 or 211 and 1 No. 812 or 212	1 No. 214
6-roll	100"	3 No. 811 or 211 and 1 No. 812 or 212	
6-roll	120"	4 No. 811 or 211 and 1 No. 812 or 212	1 No. 214
8-roll	100"	2 No. 811 or 211 and 1 No. 812 or 212	
8-roll	120"	6 No. 811 or 211 and 1 No. 812 or 212	1 No. 215
12-roll	120"	9 No. 811 or 211 and 1 No. 812 or 212	1 No. 216

Cylinder Type Flatwork Ironers

Type	Size	Unit Trapping
1 cyl.	16" x 75"	No. 812LV or No. 212LV
1 cyl.	24" x 100"	No. 813LV or No. 213LV
1 cyl.	30" x 100"	on each cylinder
2 cyl.	30" x 120"	No. 214LV on each cyl.
1 cyl.	48" x 100"	No. 215LV

Presses and Other Small Units

Machine	Speed Service	Ordinary Service
Pony	No. 800	No. 800
27" — 38"	No. 800	No. 800
40" — 54"	No. 811	No. 800
Cuff	No. 800	No. 800
Collar and Cuff	No. 811	No. 800
Cuff and Gussets	No. 811	No. 800
Yoke	No. 800	No. 800
Single Sleeve	No. 800	No. 800
Double Sleeve	No. 811	No. 800
Double Sleeve Form	No. 800	No. 800
Collar Press	No. 800	No. 800
Body	No. 811	No. 800
Bosom	No. 811	No. 800
Steam Iron	No. 800	No. 800

Curtain and Blanket Dryers

	Horizontal	Vertical
2 draw	No. 811	No. 800
3 draw	No. 812	No. 811
4 draw	No. 813	No. 812
Hdchf. and Napkin Ironer	No. 811	No. 800
Hose Form	No. 800	No. 800

Dry Tumblers

Open End Type	Speed Service	Ordinary Service
Size	No. 811 or 211 on each coil	No. 800 on each coil
36" x 18"		
36" x 24"		
36" x 30"		
Side Loading Type		
36" x 48"	No. 813 or 213	No. 812 or 212
42" x 40"		
42" x 60"	No. 214	No. 213 or 813
42" x 90"	No. 216	No. 215
42" x 120"		
46" x 120"		

UNIT TRAPPING CUTS COSTS

Dry Rooms

Length of Dry Room Pipe Coils that can be drained with Armstrong traps at steam pressure from 70 to 110 lbs.

Pipe Dia.	1"	1 1/4"	1 1/2"	2"
No. 800	400'	240'	170'	105'
No. 211-811	500'	335'	235'	145'
No. 212-812	1000'	600'	425'	260'
No. 213-813	2000'	1200'	850'	520'

TRAPS FOR WATER HEATERS

CAPACITIES OF ARMSTRONG TRAPS IN GALLONS OF WATER HEATED FROM 40°F TO 180°F

Table 1.	Trap Size	No. 212	No. 213	No. 214	No. 215	No. 216
Use This Table If Pressure is Constant	Steam Press.					
Safety Factor 3-1	5	420	760	1260	2000	3700
	10	450	950	1500	2350	4350
	15	540	1000	1600	2500	4800
	60	510	1100	1700	2400	4900
	100	450	870	1400	2300	4300
Table 2.	Trap Size	No. 212	No. 213	No. 214	No. 215	No. 216
Use This Table if Pressure Varies as Specified	Steam Press.					
Safety Factor 3-1 at Minimum Pressure	3 to 15	420	760	1260	2000	3700
	10 to 60	250	540	860	1180	2700
	10 to 125	180	350	540	860	1600
	50 to 125	350	650	1120	1600	3350
	90 to 125	440	830	1440	2200	4250

TRAP PRICES • DIMENSIONS

Trap Size	Side Inlet Traps								Bottom Inlet Traps							
	With Strainers				Without Strainers											
	No. 800	No. 881	No. 882	No. 800	No. 811	No. 812	No. 813	No. 814	No. 211	No. 212	No. 213	No. 214	No. 215	No. 216		
Pipe connections, in.	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	3/4 or 1	1 or 1 1/4	1/2	1/2 or 3/4	1/2 or 3/4	1	1 or 1 1/4	1 1/2 or 2		
List Price	\$11.50	\$16.00	\$25.50	\$10.00	\$14.00	\$23.00	\$31.00	\$46.00	\$13.00	\$21.00	\$29.00	\$41.00	\$55.00	\$78.00		
Teleg. Code	Staloe	Stown	Strine	Aloe	Brown	Cherry	Dawn	Ester	Aspen	Birch	Walnut	Hemlock	Larch	Tamarack		
Height of Trap, in.	5 3/8	7 1/8	8 3/8	5 3/8	6 3/8	8 3/8	11 1/4	18 3/8	6 3/8	8	10 1/4	14 1/2	14 3/8	17		
Diameter, in.	5	5	5 3/8	5	5	6 1/2	7 1/4	8	4 1/4	5 1/4	6 3/8	7 1/2	8 1/2	10 1/2		
Weight, lb.	5 1/2	6	15	5	6	15	27	45	6	12	21	33	47	78		
Max. pressure, lb.	150	250	250	150	250	250	250	250	250	250	250	250	250	250		



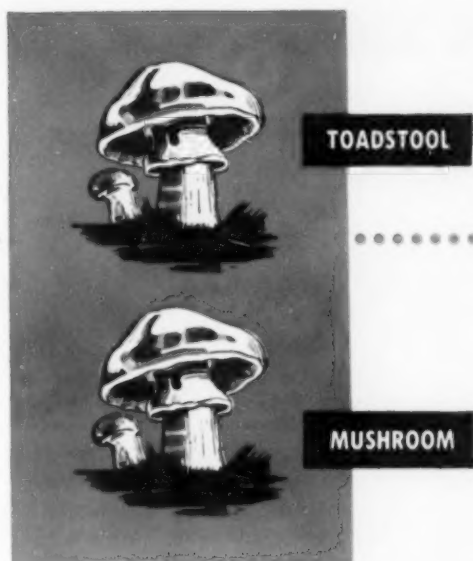
ARMSTRONG MACHINE WORKS

850 Maple St., Three Rivers, Michigan

They look alike

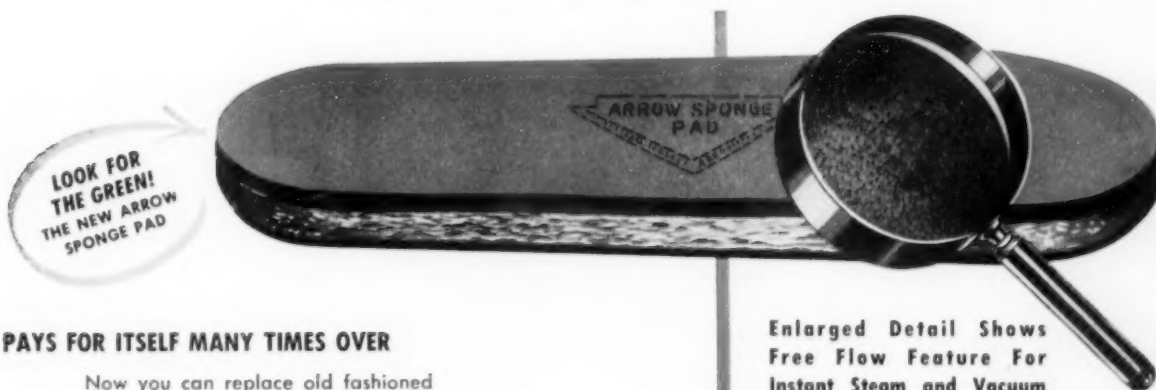
but they're really not

One's a poison, the other is a nourishing food! Toadstools will give you trouble, and so will imitations of Arrow Sponge Pads. People have learned the hard way, you can't substitute toadstools for mushrooms. . . . No more than you can substitute imitation for the original patented Arrow Sponge Pad. Be sure, be protected, be satisfied — look for the Arrow trademark . . . look for Arrow green.



THERE'S NO SUBSTITUTE FOR THE BEST
ARROW SPONGE PADS*

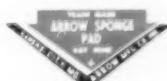
FOR ALL DRY CLEANING AND GARMENT PRESSING MACHINES



PAYS FOR ITSELF MANY TIMES OVER

Now you can replace old fashioned padding with lightning speed with genuine Arrow Sponge Pads. Eliminates garment shine and button and zipper breakage. Assures 100% efficiency in steam and vacuum operation. Erase production head-aches and convert costly "hard-to-press" summer garments into big dividends.

*Reg. U. S. Patent Office



Patent No. 2482412

Enlarged Detail Shows Free Flow Feature For Instant Steam and Vacuum

- Arrow Sponge Pads overlap buck on all sides. Assures full vacuum draw. Prevents steam from escaping at edges.
- Arrow Sponge Pads save labor and money in repadding.
- Button and zipper breakage are eliminated.
- No cotton or flannel pad needed with Arrow Pads.

Ask Your Jobber or Write Direct . . . Sizes and Shapes for All Pressing Purposes

ARROW MANUFACTURING COMPANY
2922 TERRACE STREET • KANSAS CITY 8, MISSOURI

Stubborn Spots Disappear

Like MAGIC With

SOLVINK



Solvink, the special-purpose spot remover, makes stubborn clinging stains of ink, rust, blood and paint disappear like magic.

The fast-penetration action of Solvink helps you cut finishing costs, turn out top quality work fast.

Guaranteed safe for fine fabrics and fast colors when used according to directions.

Order SOLVINK today from your jobber on a money-back guarantee. For Free Sample Write us (Dept. N-44).

One half pint set (two solutions) only \$2.25. Also money-saving pints, quarts and gallons.

GREENVILLE CHEMICAL COMPANY

P. O. Box 1087

Greenville, S. C.



And you can use these companion products profitably, too—

- **TANSOL** for Tannin Stains
- **GREENZYME**—Digestant
- **IODASE**—for Iodine Stains
- **SIZ-IN**—Hat Size

SEND GARMENTS
FOR DYEING TO

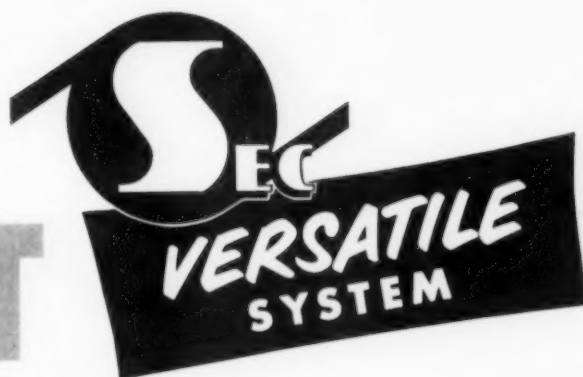
**ALMORE
DYE HOUSE**

4412 WENTWORTH AVE., CHICAGO 9, ILL.
Leon Teichner, President

Continuously in Business since 1919

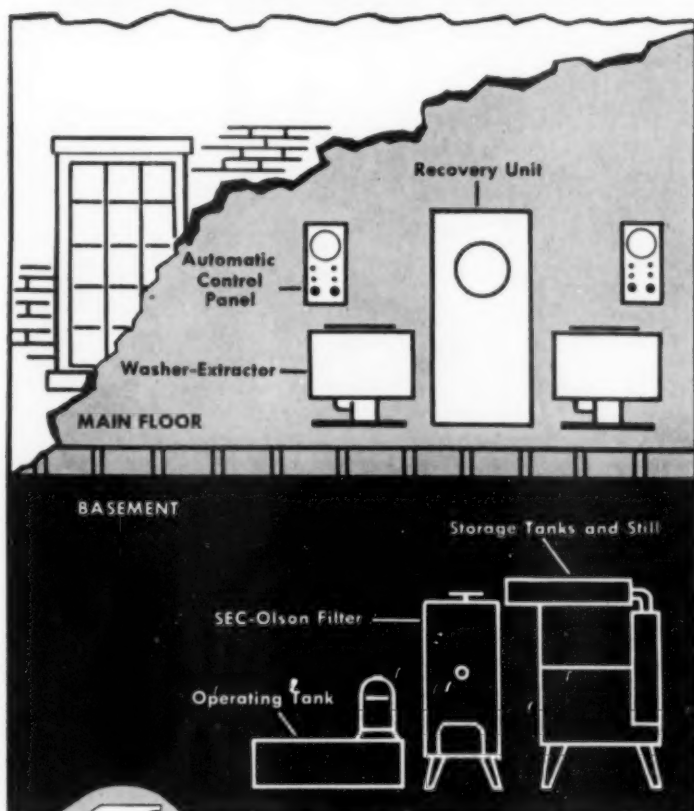
The Dyeing Name
of Undying Fame

Introducing...



NEWEST ADVANCE

In Synthetic DRYCLEANING!



Only the Washer-Extractor and Recovery Unit is in Your Shop . . . Everything Else is in Your Basement or Back Room

SEC is proud to announce a new addition to its line of synthetic drycleaning equipment—the SEC VERSATILE System for single or double bath operation.

Now for the first time, only the washer-extractor and recovery unit need take up your valuable, income-producing working area. Bulky solvent, circulation, and purification equipment can be installed in your inexpensive, non-productive areas.

The SEC VERSATILE System is designed for both your present and future needs. You can increase your capacity as needed, with minimum expense. For example, you can start with one washer-extractor with a capacity of 100 lbs. per hour. As your business increases (and it always does with SEC-cleanized) you can double your capacity merely by the addition of one more washer-extractor. Nothing else need be added to your original equipment. You double capacity at less than 1/2 your original investment.

Here are a few of the many advantages of the SEC VERSATILE System:

- Capacities from 100 to 500 lbs./hr. and up
- Handles strong soap or charge systems
- Includes SEC-Olson filtration
- Requires minimum of valuable floor space
- Washes and extracts in same tub
- No special foundations required

Write today for details

SEC-o-matic Corporation

55 La France Ave., Bloomfield, N.J.

Please send me all details about the new SEC VERSATILE System

Name

Company

Address

City

Zone

State

SEC CLEANING SYSTEMS

SEC-o-matic Corp., 55 La France Ave., Bloomfield, N.J.

A General Precision Equipment Corporation Subsidiary



SNA-PON TROUSER GUARD

The patented construction of this special trouser guard assures its staying on the hanger. SNA-PON can't buckle or slip. Heavy construction assures rigidity; rigid tubular shape holds firm. And this deluxe advantage saves handling time—SNA-PON just "SNAPS" on! It is the answer to the need for a trouser guard that STAYS ON!

- 50% Easier to Thread
- Snaps on any Standard Hanger
- Heavy Construction Assures Rigidity
- Tubular Shape Holds Firm
- Just Slide On and Press Down

SNA-PON is boxed for space saving storage. Each SNA-PON Trouser Guard is approximately 1/2-inch round—packed 2500 to carton. Carton size is 25" x 16 1/2" x 16 3/4". Shipping weight 40 lbs.

Both Sna-Pons
and
Both packed with Value!

SNA-PON DRAPERY SADDLE

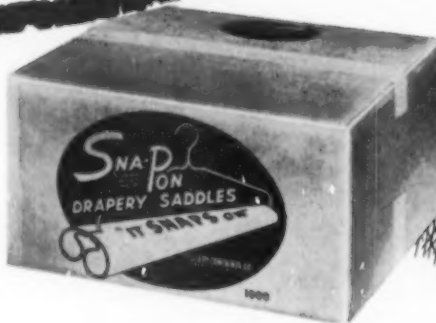
of Snow-white fibre board
CARRIES the LOAD

50% Easier to Thread

With 4 Great Features:

- Specially designed to carry heavy loads —SAFELY
- Fits any drapery hanger; just slide on and—PRESS DOWN
- Tubular shape with built-in rigidity
- Specially packaged for compact storage —no extra space needed

SNA-PON DRAPERY SADDLE is approximately 1/2" round. Packed 1000 to carton, shipping weight 20 pounds. Carton size, 19" x 10 1/2" x 17 3/4".



NOTE. With production at capacity, all orders will be filled in the order received.

Contact your jobber, please



TILLERY CONTAINER COMPANY

6000 WILSON AVE.

KANSAS CITY 23, MISSOURI



NEW

MAN! how long have I been missing this Volume Builder **C-93**

Makes Garments **FEEL - SMELL - LOOK - CLEANER**
U-SAN-O Mothproof Cleaning System

Man!

If you're looking for a Volume Builder (and what drycleaner isn't) then use U-SAN-O Mothproof Cleaning System which includes the new C-93. It will assure you of an immediate increase in volume because it's exactly what your customers want and need. Every customer today expects free mothproofing.

U-SAN-O is more than just a volume builder. It stops color bleed and increases pass-ups which gives you better cleaning and lower production cost.

The sensational Chlorophyll process with new C-93 will rid garments of annoying odors - makes them "fresh as all outdoors". They'll LOOK, FEEL, SMELL cleaner, and U-SAN-O protects them against moths.

Don't wait any longer, see your distributor today. Low cost U-SAN-O Mothproofing plus C-93 will pay for itself many times.

USED IN THE WHEEL, NO EXTRA EQUIPMENT OR LABOR NEEDED

Fully protected by United States and Canadian patents



Copyright 1952 American Mothproofing Co., St. Louis



For April, 1954

When writing to advertisers please mention The NATIONAL CLEANER & DYER

165

YOU CAN'T GET CLEAN WORK FROM A DIRTY CHARGED SYSTEM

... and your system is dirty when fatty acids and other efficiency reducing impurities pass through the filter carrying soluble dirt back into the washer to deposit on garments.

As impurities build up, cleaning efficiency decreases. Less insoluble soil is removed. Less water soluble soil is removed. Graying of garments increases.



Activated powders of the adsorptive "sweetener" type, in a series of tests recently published to the Dry Cleaning industry, did not prevent build-up of fatty acids. They *did* remove charged detergent in considerable amounts—1.36 to 6.12 ounces of detergent for every pound of powder used.

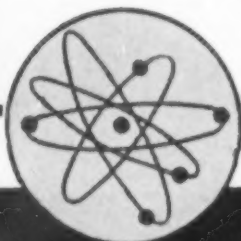
AID-SOL, the revolutionary solvent purifier, controlled the build-up of fatty acids and other efficiency reducing impurities without removing any of the detergent. Systems using AID-SOL could run many times longer without distillation than systems using activated powders. AID-SOL'S efficiency is so great pound-for-pound that its use-cost is far less than the other products studied.

You can count on AID-SOL to control the build-up of fatty acids and other odor-building and efficiency reducing impurities, without loss of detergent. You can count on savings in detergent costs and increase in cleaning efficiency. *You can count on CLEAN work from a CLEAN charged system!*

AID-SOL is made for use in synthetic and petroleum solvents in regular or charged system

AID-SOL C is Regular AID-SOL with odor eliminating Chlorophyll added

For your *FREE* copy of *NID Bulletin F-10-A* write to:
AID-SOL, P. O. Box 97, North Wales, Pa.



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Patent Applied For

Adrian

RESEARCH & CHEMICAL COMPANY, INC.

ELM & PENNSYLVANIA AVENUES • NORTH WALES, PENNA.

JOBBER'S INQUIRIES INVITED

NEW FACTS

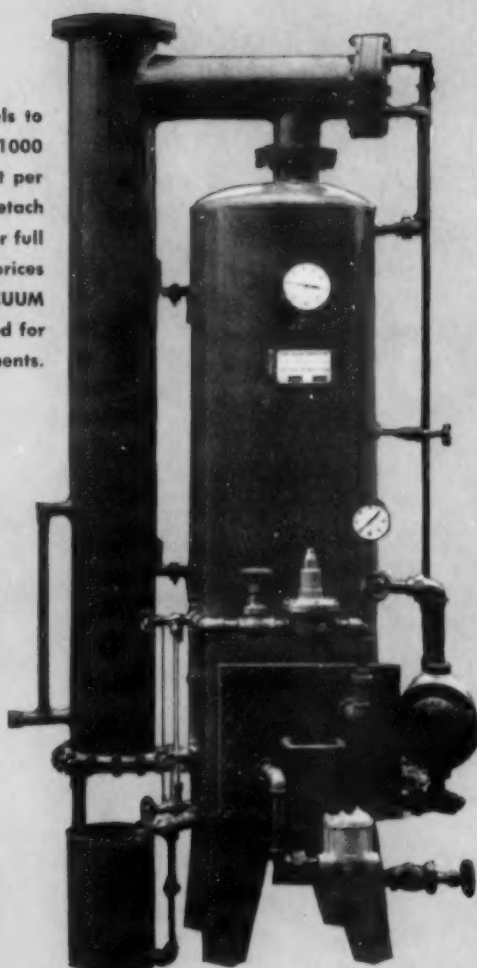
about an old favorite!

Why today, more than ever,
you need the fast, heavy-duty
reclamation of an

OLSON

VACUUM STILL!

Available in 8 models to
deliver from 50 to 1000
gallons of solvent per
hour at low cost. Detach
and mail card for full
specifications and prices
on the **OLSON VACUUM
STILL** best suited for
your requirements.



The "Charged" process is here—and with
it new demands for faster, more frequent and
more efficient distillation.

Will your present Still be able to meet this
challenge and fit into the pace of things . . .
or will it clog and stall the entire system?

If it's an **OLSON STILL** you have nothing to
worry about. Designed with the foresight that's an
OLSON trade-mark, here is a still that is big enough
to handle the heaviest loads of residue—without
trouble. Here is a Still that is built tall to prevent
boiling over . . . with a large expansion chamber to
prevent impurities from going over with the
vapor. Here is a Still that requires surprisingly little
floor space and is self operating.

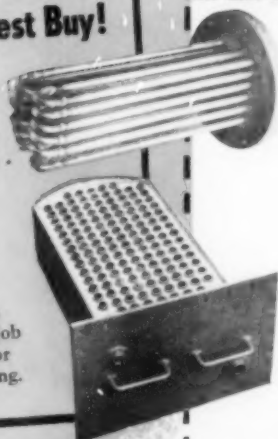
Compare **OLSON** with any Still made . . . not
only in capacity per hour, but in all important
statistics such as height, floor space, weight, etc.
Judge for yourself which Still has **ALL** the
requirements to do a "man's size" job of
distillation in your plant . . . and you'll choose
an **OLSON!**

SEND FOR FULL FACTS ABOUT
OLSON STILLS

Two More Reasons Why Olson Is Your Best Buy!

• Duo-Purpose
PRE-HEATER uses
outgoing vapors to
raise solvent tempera-
ture (*saving steam*) . . .
cools the solvent
vapors *before* they
reach the condenser
(*saving water*)!

• Removable **HEAT-
ING ELEMENT** does
a remarkable heating job
. . . slides out easily for
inspection and cleaning.



Olson Filtration Engineers, Inc.
1624 No. Kilbourn Ave., Chicago 39, Ill.

Gentlemen:

Send full information and prices on

☐ **OLSON VACUUM STILLS**

☐ **OLSON TUBULAR SCREEN FILTERS**

Name

Firm

Address

City State

TIME ISN'T ALL YOU SAVE

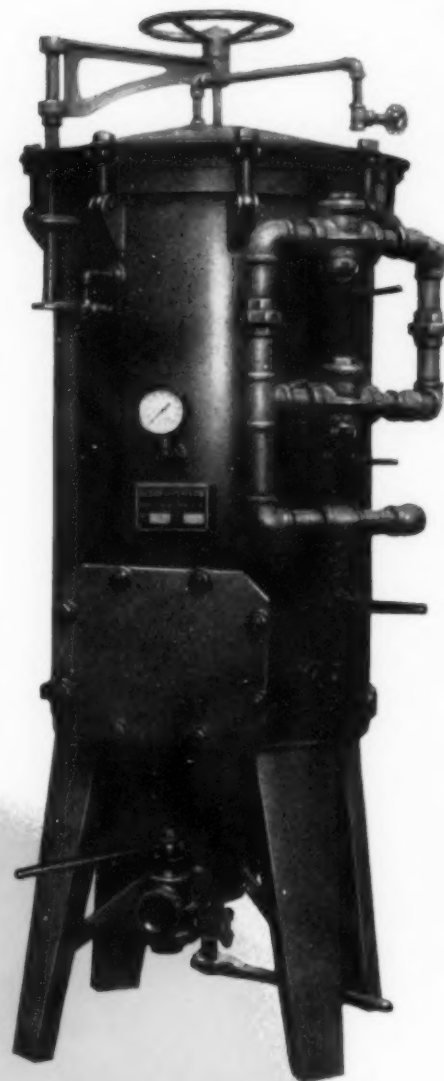
WHEN YOU INSTALL AN **OLSON** TUBULAR SCREEN FILTER

Sure, an OLSON is the easiest, quickest filter to clean. Two turns of the valves and the work is done automatically . . . in minutes not hours . . . and without messy scraping. But don't lose sight of the fact that OLSON *Tubular Screen Filters* also do a dependable, more efficient job of filtration. Whether you use the new "Charged" system or the regular solvent method, OLSON Filters *save you money* in the process!

One reason for this unequalled performance is that OLSON, and only OLSON, expands its filtering surface

as the filtering process progresses . . . reducing pressure build-ups and increasing the cycle duration. Then too, because of the uniform, "straight-through" openings of the OLSON screen all filtering is done on the SURFACE of the screen where the filter aid and dirt can be dislodged IN SECONDS!

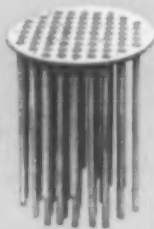
Further examination of the OLSON *Tubular Screen Filter* will convince you that here is the one, fine durable filter designed to save you time, trouble and money! Mail the card on the reverse side for full information.



Available in 7 sizes to deliver from 1000 to 10,000 gallons per hour.

TUBULAR SCREENS

. . . Specially constructed, suspension mounted screens with UP-FLOW circulation produce virtually BLIND-PROOF operation.



CONE-TYPE SLUDGE REMOVER

. . . Special agitator loosens mud as BACKWASHING forces it out the cone. The cleaning-out process is done in 2 or 3 minutes without emptying the filter.



OLSON

**FILTRATION
ENGINEERS,
INCORPORATED**

The Oldest Name in

Drycleaning Filtration

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Will be Paid
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No
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Necessary
If Mailed in the
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BUSINESS REPLY CARD

First Class Permit No. 43877, Sec. 34.9 P.L. & R., Chicago, Ill.

OLSON FILTRATION ENGINEERS, INC.
Chicago 39, Ill.
1624 N. Kilbourn Ave.,

PARA-LUX



Holds up to 12 neckties by tension without wrinkles or pin holes. Preserves perfect finishing.



Keeps ties safely protected over Ti-Rak. Fine quality, heavy white kraft with sales-compelling message.



Allows easy separation of garments on racks, either alphabetically or numerically. Hangs on racks just like garment hangers.



HANGER COVERS

Scientifically designed to create a cushion of air at neck and shoulders, thus fully protecting the final pressing operation. Self-sealing. No pins or staples required. Cannot fall off hanger. Quick, simple to use. Available with individualized advertising message.



Holds belts or single neckties firmly in place without pins by locking securely in place over hanger hook.



No lint rubs off. Standard and deluxe styles. Slotted ends fit all standard size wire hangers. Holds trousers smooth.



CLOTHING HANGERS

Non-Shift is the original square top wire garment hanger. It is stronger to hold all types women's and men's garments. It anchors the garments in properly centered position, protects careful finishing and holds proper shape at all times.



Packaging helps for extra repeat business!

Perfect service demands perfect packaging. And you are certain of perfect packaging and proper protection for your services when you use PARA-LUX Packaging. Leading dry cleaners and launderers have found that PARA-LUX helps to build extra business, too. Let us send you samples and prices on timely, effective, colorful, sales-promoting PARA-LUX packaging specialties. You'll soon learn the difference at your own cash register!

Lincoln Bag Company, Inc.
Para-Lux Products Company

4207 WEST SCHUBERT AVENUE • CHICAGO 39, ILLINOIS



COLLAR SUPPORT

Greater operator output is easy with this amazing collar support that prevents distortion and breakdown of collar. It is quickly inserted inside the collar band to remain in four-way, locked position.



PACKAGING

Cleaning fit for



Queen of the month
GERALDINE ANN LINDSEY
Miss Washington, 1953

a Queen

there's nothing like **DARCO DC** for keeping solvent clean...

You'll get the best job of cleaning from your charged soap system if you keep your solvent in good condition. Watch the sight glass—and don't let it get darker than a straw color.

Daily Recommended Dosage and Procedure for using Blue Label Darco DC

Filter Size	STEP 1 First—precoat with filter aid	STEP 2 Then—add a mixture of Darco DC and filter aid
1300 gal./hr.	3 lbs.	3 lbs. plus 1 lb.
2000 gal./hr.	5 lbs.	4 lbs. plus 1½ lbs.
3200 gal./hr.	7 lbs.	6 lbs. plus 2 lbs.
5000 gal./hr.	10 lbs.	10 lbs. plus 3 lbs.
8000 gal./hr.	16 lbs.	12½ lbs. plus 4 lbs.
10000 gal./hr.	20 lbs.	16 lbs. plus 5 lbs.
12000 gal./hr.	24 lbs.	20 lbs. plus 7 lbs.

FOR SYNTHETIC SYSTEMS: For the average size synthetic unit, Step 1 requires 3 pounds of filter aid as a precoat. Step 2 requires a mixture of 3 pounds of DARCO DC and 1 pound of filter aid.

NOTE: 1 quart filter aid is ½ lb. (diatomaceous earth).
1 quart Darco DC is 1 lb.

DO THIS EVERY DAY BEFORE YOU BEGIN WORK. AFTER COMPLETING THE TWO STEPS AND SIGHT GLASS SHOWS CLEAR SOLVENT, YOU ARE READY TO CLEAN.

It's easy to do this, by daily use of Blue Label DARCO DC activated carbon. Pound for pound, DARCO DC takes out more impurities from the solvent than any other powder or sweetener available to dry cleaners. Laboratory tests and extensive usage in dry cleaning plants prove these facts about DARCO DC:

REMOVES MORE COLOR—stops greying from bleeding dyes.

REMOVES MORE FATTY ACIDS—eliminates odor-causing impurities.

REDUCES SOAP STEALING—steals less soap and retains less solvent.

Try DARCO DC yourself, in the dosage recommended for your own system. You'll find cleaning work looks brighter and smells better. And you'll save money, too, by using less soap, less solvent, less distillation. See your DARCO DC distributor today.



Write for this free folder telling why and how to use Darco DC in any cleaning system.



DARCO DEPARTMENT

ATLAS POWDER COMPANY

Darco General Sales Offices

60 EAST 42ND STREET, NEW YORK 17, N. Y.

ATLAS POWDER COMPANY, CANADA, LTD., BRANTFORD, CANADA

any spot is the right spot for.....

**THE MIRACLE PRE-SPOTTER FOR QUICK,
SAFE REMOVAL OF ALL TYPES OF STAINS!**



- Ideal for any type of fabric! ● Will not clog dry cleaning system!
- Absolutely odorless! ● Sold only on money-back guarantee!
- Available in gallons or drums!

A complete line of laundry and dry cleaning supplies. Nation-wide service.

Write

H. Kohnstamm & Co., Inc.

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OF QUALITY LAUNDRY AND CLEANING SUPPLIES





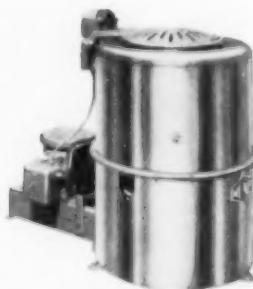
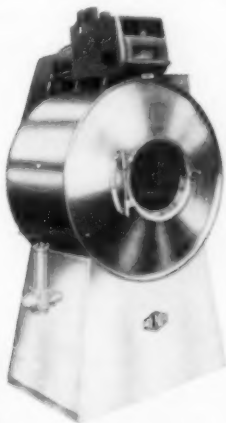
MILNOR STOPS THE SHOW!!



It takes *real* quality . . . a *real* product . . . to stop a show. And MILNOR fine Laundry and Dry Cleaning equipment has done just that. From coast to coast, from Canada to the Gulf, more and *more* plant owners are installing MILNOR washers and Extractors. A product is proven by its performance, and Milnor's performance indeed makes it rate the "center ring," and that for service, economy and quality, MILNOR tops them all!



Milnor's engineering skill makes the 1954 washers the finest ever. Built of rugged stainless steel, they are available in the 25 lb., 50 lb., and 25 lb. dual models, and all models are available with the new MILTROL Flexible Sequence Timer.



The new 20", 26" and 30" stainless steel Extractors are designed for fast, easy loading and unloading and thorough removal of moisture and solvents from the work. Quality features available from Milnor, make these extractors the finest available to the laundry and dry cleaning industries.



* Spray Rinse Units available for 26", 30", 40" and 48" Extractors.

Write today for complete information or see the Milnor distributor nearest you.

Pellerin



CORPORATION

MANUFACTURERS OF FINE LAUNDRY AND DRY CLEANING EQUIPMENT

8000 EDINBURGH STREET • NEW ORLEANS, LA.

my adjusta-form Reduces Finishing Costs with production



- One operator handles a mixed run of suit coats, dresses, short jackets and overcoats on this single machine.
- No delay in changing forms. All controls are accessible after the garment is placed on the form.
- Adjusta-Form restores shape, removes wrinkles, gives a soft, new appearance and finishes rolled sleeves. New or old employees quickly become skilled operators. Finishing is simplified, while at the same time greater production and quality is attained

Adjusta-Form

See your jobber for a convincing demonstration.

Meet those rising costs in the dry cleaning industry with more production and more profits. It's the Adjusta-Form for production.

ENGINEERED AND MANUFACTURED BY

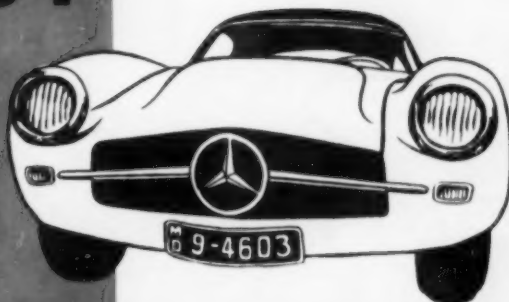
WICHITA PRECISION TOOL CO., INC.

450-E NORTH SENECA

WICHITA, KANSAS

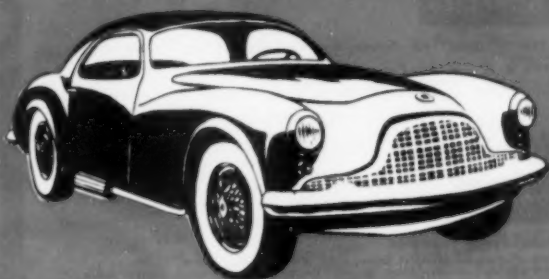
OUR NEW 1954

*Smooth
Streamlined*



GARMENT DYEING *is different*

as different — as a New Model Car!



**FAST PARCEL POST
SERVICE ANYWHERE
IN THE U.S.**

*Seven added new
features* make our
1954 dyeing as easy to
handle as power steering
—at no extra cost.

Price list and
other informa-
tion sent upon
request.

Lawrence Jacobson Dye Works, Inc.

"Particular Dyeing for Particular People"

Summerdale and Comly Streets • Philadelphia 24, Pa.



CARMAN AND MORRIS & ECKELS

THESE TWO NAMES ARE YOUR ASSURANCE OF...

- Tested and Proved Laundry & Dry Cleaning Supplies
- Consistent service in the interests of the Laundry and Dry Cleaning Industries

Our Representatives are interested in YOUR supply and equipment problems... they are Qualified by training and experience to work with you in creating more efficient and economical operations... Call on them for cooperation at any time... It will be extended gladly at no obligation.

DRY CLEANING SUPPLIES

BRUSHES—Tag Line Spotting; Scrub; Velvet; Carding and Napping; Others.
BUTTONS—Tailor's Plain and Mottled—Suit, Vest, Overcoat, Pants, Shirt.
CHEMICALS—A complete line of high quality products for every purpose.
DYES—American Aniline—Union; Celanese; Neutral; Direct; Acid.
FILTER AIDS—DC Filter; Nylo Supercel; Chlor-o-Cal; Darco; Flebrite.
GARMENT BAGS—Plain or Printed; Meth-Seal & Sanitex Storage; Welt Collaphane and Plastic Bags.
HANGERS—Carco Wire; Walderf Hang-Rite; Neverslip Tie Hangers and Bags.

PAPER SPECIALTIES—Trouser Guards; Tissue; Hanger Shields, Pro-tectors.
SOAPS & SPOTTERS—Carco Specialties; Caled; Davies-Young; Eaton; Erusto; Selix; Street; Others.
SOLVENT—Dow Synthetic—Dowcien; Perchlorethylene; Carbon Tet.

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RUG & UPHOLSTERY SHAMPOOS; STRIPPERS—STAIN REMOVERS; DETERGENTS; DUODEX CARPET ANTISEPTIC; SIZINGS—RUG SEALER; SOLVENTS.

LAUNDRY SUPPLIES

ANTISEPTIN—The Safe and Certain Laundry Germicide
ALKALIS—Pensol; Metso; Metso 99; Cowles Detergent; Wyandotte Products; Prosperity Sodas; Soda Ash; Caustic Soda.
APRONS FOR IRONERS—Carman's Prosperity Apron Ducks in customary widths and weights—look for the purple stripe.
BLEACH—Sodium Hypochlorite; Ad-Dri; Perchloron; NTH; Pitchler; Penoxone; Chloride of Lime.
BLUES—Carman's Prosperity Blues—complete line; Erusto Blues; Es-sonne Blues.
COVER CLOTH AND DUCK—Orloto Coverings (medium wt.); Carco Extra Duck (heavy wt.) in widths to fit any ironer—look for the purple stripe.
FINISHING AID—Carco CMC Formula.
FLANNELS—Carco Flannel—54"x72"; Carvel Nylon Blanket; Ready-made gross Rannels.
HAMPERS—the famous "Lane" and "Weese" lines—all styles and sizes, with or without casters.

NETS—Cotton Carmanets; Nylon Nets, All sizes and colors.
PACKAGING—Boxes; Shirt Boards; Collar Supports; Shirt Bands; Garment Bags; Specialties.
PADDING—Red Edge Knitted Cotton Padding; Resilio Steel Wool Pads for Presses, Cut and Bound Press Pads; Marvel Pads.
PRESS COVERS—"Tailor-Made" Cotton and Nylon Covers.
SDAPS—Procter & Gamble's complete line; Ivory Powder and Flakes; Amber Powder and Flakes; Sarafesa; Brox; Orvus Paste; Ozonite and Cold Water Ozonite; Calico; Synthetic detergents.
SOURS—Carco Sour; Carcobrite, Extra, Special, Carcoide, Carco DC, Carco Tint; Erusto Sour, Special and Regular; Erusticide; Wyandotte Sour. A complete line of "safe-to-fabric" sour.
STAIN REMOVERS—Carman's Carco Line; Oil-Ga, Yellow Specific, Clear-O; Caled; Davies-Young; Erusto; Street; Wilson.
STARCH—Keefer's Satinette and Wheat-n-corn; Huron's Velvet Rain-bow and Wheatex. Other brands for special purposes.

MECHANICAL SPECIALTIES

ACORN ELECTRIC FANS
BINKS SPRAYING EQUIPMENT
BISHOP LAUNDRY & CLEANING EQUIPMENT
BOCK EXTRACTORS
CARMAN FUR CLEANING EQUIPMENT
CERTIFIED ROTABRUSH EQUIPMENT
CISSELL EQUIPMENT

DAVIS SPECIALTIES
DRYCO IRONS & APPLIANCES
EXCELSIOR EQUIPMENT
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GLOVER SPECIALTY EQUIPMENT
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RESILLO STANDARD & FOAMANEL PADS
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Executive Office:

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WE MEET EVERY REQUIREMENT FOR LAUNDRY, RUG CLEANING AND DRY CLEANING EQUIPMENT AND SUPPLIES WITH PRODUCTS DEVELOPED BY OURSELVES OR WITH PROVED LEADERS PRODUCED BY FOREMOST MANUFACTURERS.

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ROCHESTER • ROCK ISLAND • ST. LOUIS • SAN ANTONIO • TAMPA • TULSA • WASHINGTON • WICHITA

HERE'S THE SOLUTION TO YOUR BUTTON PROBLEM!

WHY SEW EVERYTHING
BACK ON GARMENTS
WHEN YOU DON'T
HAVE TO?

ATTRACTIVE, TOP QUALITY,
COPYRIGHTED ENVELOPES
FOR RETURN OF BUTTONS
AND ORNAMENTS—

PHOTOSTATIC COPY OF
REVERSE SIDE



500 — \$6.95
1000 — 10.95
(SAVE 2.95)
2500 — 21.75
(SAVE 5.62)

INVEST A
PENNY—SAVE
FIFTY!



BUTTON SLOT
CUT THROUGH
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FLAP IS
GUMMED—
CAN BE
SEALED

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NOW
BEING USED
SUCCESSFULLY BY
THOUSANDS OF RELIABLE
CLEANERS ALL OVER
THE COUNTRY!

EDUCATE
YOUR CUSTOMERS
MOST OF THEM
COOPERATE!

SAVE
ON LABOR
IT'S TOO
EXPENSIVE
TO WASTE!

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TO: HANDY ORDER FORM

NEW ENGLAND BUSINESS SERVICE
RIVERBANK TERRACE
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☐ * CHECK ENCLOSED
☐ SHIP C.O.D.

SHIP US _____ ENVELOPES AT ONCE.
* BY SENDING REMITTANCE WITH ORDER YOU SAVE PARCEL
POST AND C.O.D. CHARGES— WE'LL PAY SHIPPING COST.

SHIP TO: _____

STREET _____

CITY & STATE _____

DC 16-NCD

Adco's

customers are
the finest dry cleaners in America—
**WHO IS RECOGNIZED AS THE FINEST
CLEANER IN YOUR CITY?**

The chances are the cleaner who is doing the top quality job and making the most money on his investment is the cleaner who is not only using Adco products today but has used them throughout the life of his business. Adco's enviable position as supplier of the world's finest dry cleaning products DIRECT FROM ADCO'S FACTORY to the world's finest dry cleaners has come about through 46 years of manufacturing up to the highest peak of quality, rather than down to a price.

ADCO'S POLICY OF FACTORY-FRESH PRODUCTS DIRECT TO YOU...NO MIDDLE MAN TO PAY...MEANS EXTRA DOLLARS OF QUALITY IN EVERY BARREL YOU PURCHASE.

VERY IMPORTANT!

Check with your Adco field technician for the very latest method of recording **SOLVENT HUMIDITY** in conjunction with automatic **SOLVENT TEMPERATURE CONTROL** ... the answer to **TOP QUALITY CLEANING** every load!



The Adco girl is wearing a Howard Greer Original* cleaned with the Dri-Sheen Process. The Dri-Sheen Process is the world's most widely used charged system method of cleaning. Dri-Sheen can be used in any percentage from ½% to 4%. To have one of Adco's 52 trained

drycleaning engineers demonstrate the Dri-Sheen Process in your own plant at no cost to you,

NEW LIGHT-COLORED

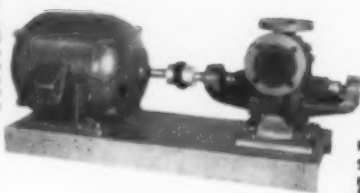
**DRI-SHEEN
PROCESS**

Food for Fabrics

*Courtesy of Scruggs Vanderhoof Barney, St. Louis 1, Mo.

call, wire or write **Adco, INC.**, Manufacturing Chemists Since 1908, Sedalla, Mo., U.S.A.

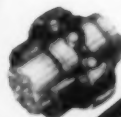
Schaub Master-Bilt Pump
Ball bearing turbine-type. Hydraulic and dynamic balance. No periodic maintenance needed. Install a Schaub Master-Bilt pump, then forget about it.



Permanently Lubricated Ball Bearings—
No more greasing. Grease is sealed in and dirt is sealed out for the lifetime of the pump.



Fleximatic Shaft Seal—
Simple 2-piece assembly provides leakless trouble-free operation. No more water spray. No more shaft scoring. No more pump packing.



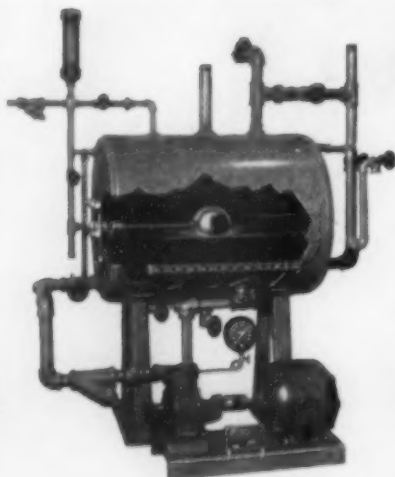
Ultra-Dependable Magnetrol Boiler Water Level Control—
Combination pump control and low water safety cut-off.



—Schaub Systems use only the proven, friction-free Magnetrol for continuous boiler safety. No bellows to stiffen, no packing to bind, no tricky electrode circuits to fail. **BOILER SAFETY KNOWS NO PRICE.**

All models approved by Underwriters' Laboratories, Inc.

When You
**COMPARE
FACTS**
Like These



10-Year guarantee against corrosion

Schaub engineers worked with leading chemical researchers to develop Chromosoid lining. You're safe from costly premature replacements. No more rust-clogged systems. The electrolytic corrosion inhibitor protects unlined steel pipes.

You'll Put Your Money On

SCHAUB
**BOILER RETURN
SYSTEMS**

There is a great deal more value in a return system when it is completely engineered to do the job *right*. Consider, for instance, how tremendously important is the boiler control that both operates the electric feed pump and doubles as the low water safety cut-off on your boiler. Should this automatic control fail *just once*, you are wide open for boiler failure and plant shutdown, to say nothing of the hazard of boiler explosion.

If the only advantage a Schaub System gave you was its supremely dependable Magnetrol boiler control, it would be hard to over-estimate its extra value. Why? Because only Magnetrol's tireless, friction-free operating principle — with no bellows to stiffen or rupture, no packing to bind, no hyper-sensitive electrical circuit — gives *continuous* safety. And boiler safety knows no price.

But that's not all — with a Schaub System you also get exclusive maintenance-free Master-Bilt pumps and corrosion-proof Chromosoid lined receivers. When you buy a Schaub System, the least difference is the difference in price.

FRED H. SCHAUB ENGINEERING COMPANY, INC.

2118 S. Marshall Boulevard

Chicago 23, Illinois

The complete story of how much more you get when you specify a Schaub System is quickly presented in Catalog 55. Write for it now.



so completely different it makes production soar!

the new

air-operated

EXCELSIOR OFFSET PRESS

Latest engineering developments make the Excelsior "Air-Operated" Offset Press a must for silk finishing departments.

Smooth, fast opening and closing of the head, with fingertip operation, boosts production and keeps operators fresh all day. Automatic, uniform pressure even on soft finish materials guarantees quality finishing without shine and seam marks.

See it now...The Excelsior "Air-Operated" Offset Press is a great contribution to advanced silk finishing!

AUTOMATICALLY OPENS AND CLOSES

...Cuts down operator fatigue...
far more production... with less effort.

Speedier... head opens and
closes at touch of fingers... clips
minutes over manual machines.

Flexible pressure... Zero pressure
and Vacuum Lock for hard finish
materials or for extra pressure
when desired.



Handy sleeve buck
—swivel mounted

Steam iron located
on press for fast,
effortless touch-ups

Automatic control
opens and closes head

Waist-high controls
for tall or short
operators

Excelsior

MACHINERY CO.

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DETROIT 26, MICH.

Excelsior Machinery Co.
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Detroit 26, Mich.

☐ Send literature for the "AIR-OPERATED"
Offset Press

☐ Also send facts on EXCELSIOR's
"One-Operator" Silk Finishing
System at once.

Name _____

Firm Name _____

Address _____

City _____ Zone _____ State _____

"I'll be back in an hour!"

That's when you need
a *Martin* Model 25!



Today, just a quality cleaning job isn't enough. You've got to be *quick* about it, too! That means you need a Martin Model 25 so you can promise—and deliver—1-hour service!

The Martin 25 thoroughly cleans 25 lbs. of work in one straight-through automatic operation. And it's *fast*! Pace-setting features include deep-drop action in full reversing cylinder, open-end loading and unloading to save time and steps. With *no partitions*, you have no *divided loads* to weigh—no tangled clothes to separate!

With all its speed and efficiency, the Martin 25 is marvelously compact—fits just 3 x 10 feet of floor space. Get set now for a lion's share of the dry-cleaning business in *your* community.

Write for information or call your "Martinizing" dealer.



Martin Model 25-equipped quick service plant.

→ To *double* your Model 25 capacity, ask about the Martin Percsaver! Quickly dries and deodorizes loads—releases your 25 Unit for cleaning and extracting only.

Full-drop in the Martin Model 25 open-pocket cylinder gives the best cleaning job. Handles the most delicate fabrics with care, dries faster at shrink-proof temperature, renews colors!



Martin

EQUIPMENT COMPANY

Division of

The American Laundry Machinery Company
Cincinnati 12, Ohio

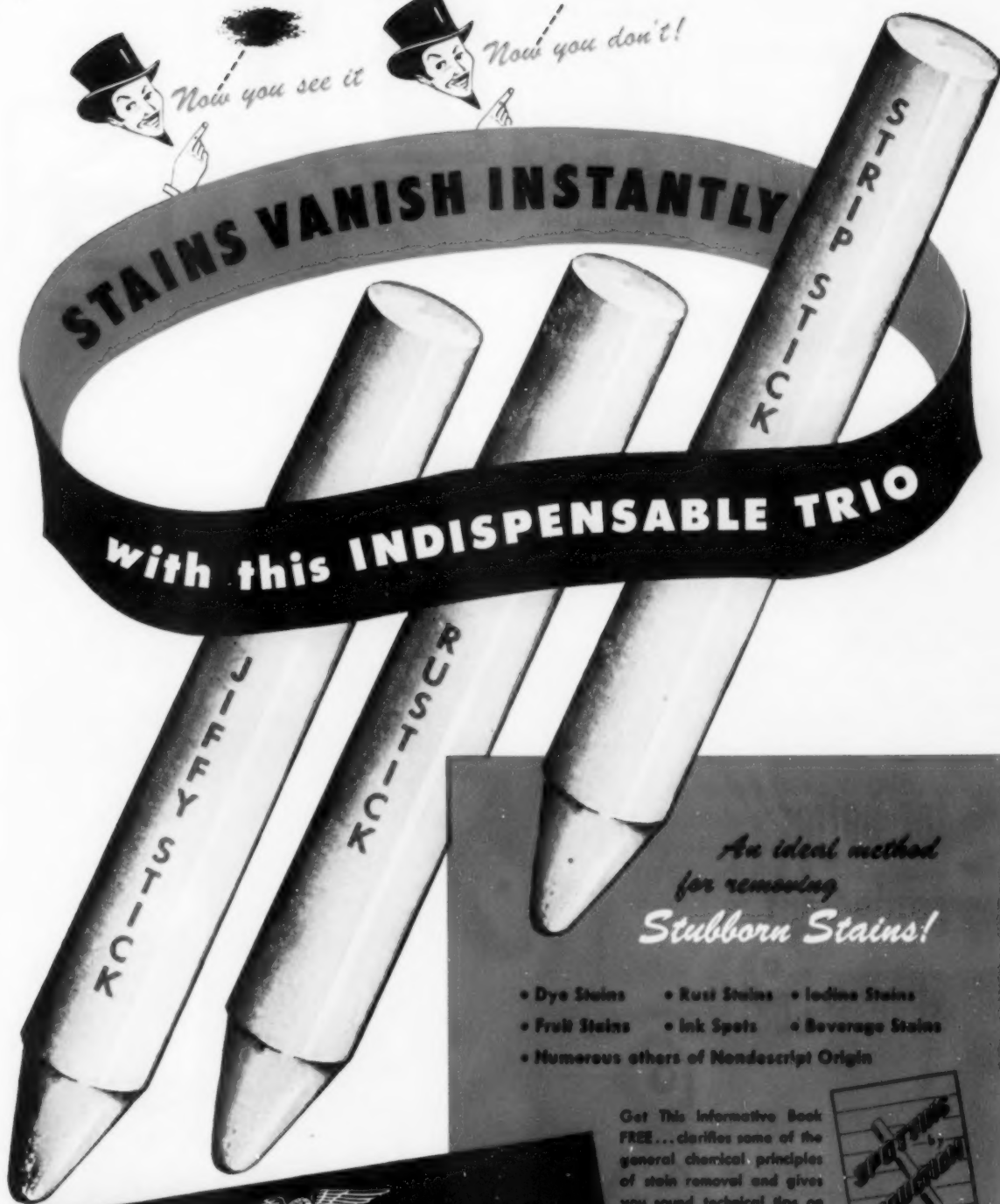


The Martin Model 25 for use with perchlorethylene solvent. Time- and step-saving open-end loading and unloading, gives you plenty of elbow room for handling work loads.



STAINS VANISH INSTANTLY

with this INDISPENSABLE TRIO



*An ideal method
for removing
Stubborn Stains!*

- Dye Stains • Rust Stains • Iodine Stains
- Fruit Stains • Ink Spots • Beverage Stains
- Numerous others of Nondescript Origin

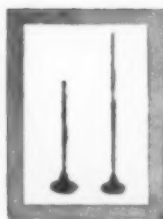
Get This Informative Book
FREE...clarifies some of the
general chemical principles
of stain removal and gives
you sound technical tips on
safe spotting for fabrics.
Write for your copy now!



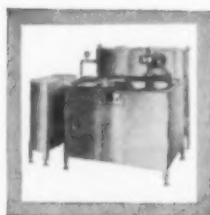
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Manufacturers of Nationally Famous WPR



Garment
Bagger



Triplex
Drycleaning Unit



Cabinet Dryer
66" x 36" x 28"



Garment Dryer
Adjustable Clamps



Allway
Pants Shaper

HUEBSCH

...the name
that stands
for better
equipment
at less cost!



Drycleaning Tumbler
... Steam heated in
4 sizes: 36"x18",
36"x24", 36"x30",
and 42"x42".

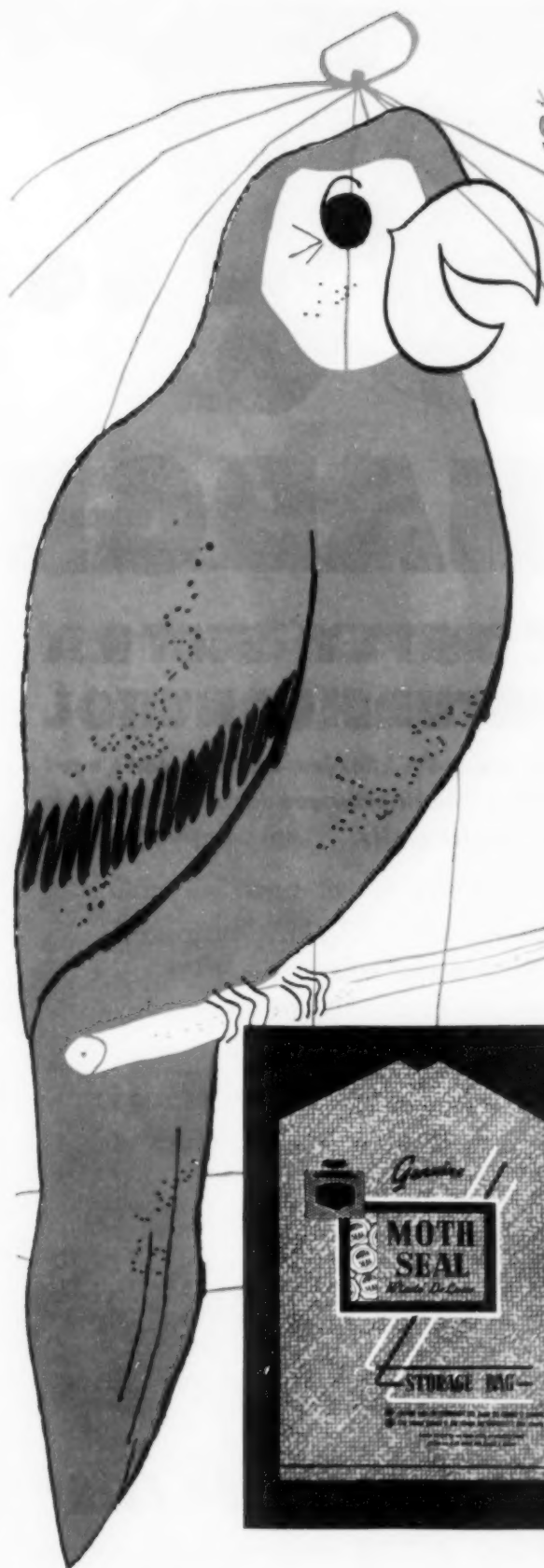
*For complete details, see your
local Huebsch representative ...
or write us direct.*

**HUEBSCH
MANUFACTURING
COMPANY**

Milwaukee 1, Wisconsin
Division of
THE AMERICAN LAUNDRY MACHINERY CO.

HUEBSCH

originators



"squawk,"

take a tip from
a wise old bird...

"even I know,

**THERE'S ONLY ONE
GENUINE**

**MOTH SEAL
STORAGE BAG!"**

Comparisons usually are odious . . . in fact you might say they're strictly for the birds! But when it comes to storage bags, there's nothing in all the world that can touch genuine MOTH SEAL—the one storage bag every cleaning customer knows. Long-time national advertising, aggressive promotion, topnotch quality, exclusive features—add them all together and they spell MOTH SEAL. Take a tip from a wise old bird; see your favorite jobber right away. Better do it today!



STANDARD MOTH SEAL



DELUXE MOTH SEAL

Lincoln Bag Company, Inc.
Para-Lux Products Company

4207 West Schubert Avenue
Chicago 39, Illinois



NO!

CAL'S CHARGE

REQUIRES NO COSTLY EXTRA GADGETS FOR MOISTURE CONTROL

A 1½% Cal's Charge will outclean most 4% charges, and you don't need expensive controls that may or may not work after you install them. Save your money and still get the same results easily.

- NO special techniques
- NO problem to use
- NO wrinkles — extract heavily — save money
- NO static problem
- NO odor — you can use active filter aids
- NO pressure on filter
- NO lint problems
- NO soap stains
- NO oily feel
- NO harshness



**THERE'S A SPECIALIZED CALED PRODUCT FOR EVERY
DRY CLEANING NEED**

YES!

CAL'S CHARGE

IS DESIGNED ESPECIALLY FOR CHARGE SYSTEMS

*You can be sure that 1½% Cal's Charge will outclean most 4% charges.
Yes, you save money, in charge return after extractor . . . and get better
extractions, too.*

Can be used in ALL systems, all solvents

Actually DELIVERS the results other soaps have
only claimed

Takes out SPOTS right at the wheel

Removes soil COMPLETELY

Leaves whites snowy white, colors like new

Is endorsed by thousands of cost-minded cleaners

Yes, Cal's Charge Saves Your Money
AND OFTEN SAVES
A CUSTOMER!

CALED PRODUCTS CO., INC.
BRENTWOOD MARYLAND

Resillo

PERFEX

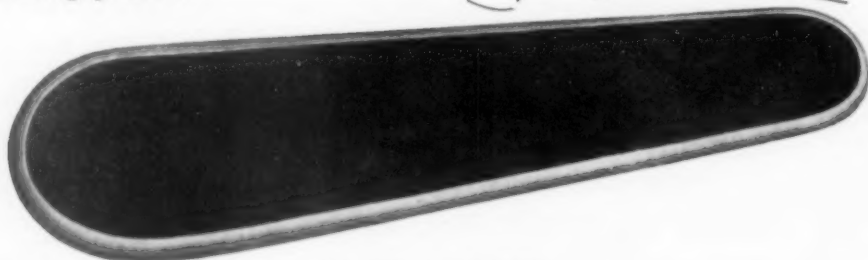
MONEL-MESH

dry cleaning

PRESS PADS

*... the perfect Press Pad
for your dry cleaning presses*

Made
with rust-resistant
monel-mesh
—will not harden
or pack down.



SAVES PRECIOUS MANPOWER HOURS — Eliminates frequent, costly pad changes — due to its long life and dependable service.

PRODUCES QUALITY PRESSING — ELIMINATES SHINE — Constant resiliency permits smoother, more uniform pressing.

CUTS DOWN BUTTON BREAKAGE — The soft cushioning action incorporated in the construction of the **PERFEX** reduces button breakage and replacement costs.

Especially recommended for high production cleaning plants ... for clothing manufacturing plants.

INCREASE PRODUCTION — Open weave, porous construction permits faster passage of steam.

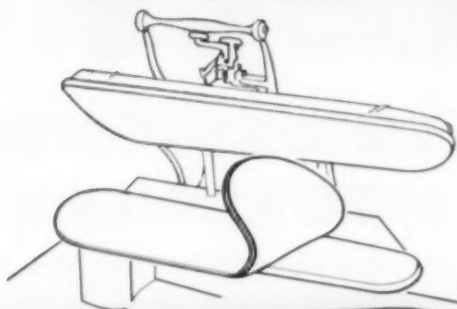
ASSURES TROUBLE-FREE SERVICE — PERFEX requires no "looking after" ... helps maintain high production schedules.

IS GUARANTEED — The **PERFEX** Dry Cleaning Press Pad carries the usual **RESILLO** Guarantee.



PERFEX combines all the important features necessary for maximum efficiency on your dry cleaning presses. This remarkable pad will pay for itself by the savings in time, labor, material and equipment.

**For All Dry Cleaning and
Garment Manufacturer's Presses**



Resillo

**WORLD'S LARGEST EXCLUSIVE
MANUFACTURERS OF METAL**

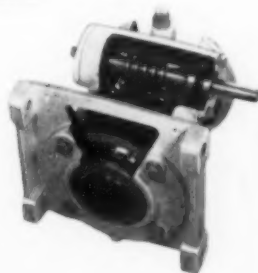
PRESS PADS

RESILLO COMPANY • 2328 WEST NELSON STREET • CHICAGO 18, ILLINOIS

Brother, you've just made the right choice!



STURDY, beautifully and simply designed . . . ANY PART CAN BE REPLACED IN LESS THAN 15 MINUTES. Separate motors for fans and baskets. Powered with the famous Cissell Gear Reducer.



The talk of the industry! Here's why: Sturdy construction . . . dependable performance . . . flexible operation . . . accessible parts for maintenance and cleaning. **CISSELL LAUNDRY TUMBLERS**—GAS-FIRED, 36" x 30", or "Twin" with Time & Temperature Control or Bell Signal Time Alarm. STEAM-HEATED, 42" x 42"-100 lb., 36" x 30", or "Twin" with Time & Temperature Dry Alarm or Bell Signal Time Alarm. **CISSELL DRYCLEANING TUMBLERS**—STEAM-HEATED ONLY, 42" x 42"-100 lb., or 36" x 30" with Bell Signal Time Alarm and Thermometer.

NOTE: 42" x 42" Tumblers have reversing or non-reversing basket.

CISSELL

Consult Your Jobber

W. M. CISSELL MFG. CO., INC., LOUISVILLE, KY.

Pacific Coast Office—4823 W. Jefferson Blvd., Los Angeles—Foreign Distributors write Export Dept.—Cable: "CISSELL"

120 Wet Days Predicted in Your Area for 1954!

This Can Be Good News If You Have A Good

If you have any doubts about rain—or snow—in your area, just call up your local weather man. In most parts of the U. S. A., there is rain or snow, on the average, about one day in every three—120 days or more a year. In your area there may be a few less, or a few more—but you can be sure there will be plenty.

This also means there will be plenty of opportunity for the drycleaner with a good water repellent—provided it is also a water repellent with a good name. A peculiarity of water repellents is that they are invisible—your customer can't see them; if the repellent has no

name, or is unknown, you have just got nothing to sell.

On the other hand, with a water repellent like "Cravenette"—with the "Cravenette" name and label—you really have a feature because "Cravenette" water repellents have been favorites with, and enjoyed the confidence of the public for almost 70 years. If you want to know how "Cravenette" stands with the public just stop into any good clothing store, anywhere, and ask the owner. With "Cravenette" water repellents you have a sales promoter in every merchant in town. Or check with any one of the hundreds of leading drycleaners and see what they think.

The Cravenette Company, U.S.A.

8th and Madison Streets, Hoboken, N. J.

Since 1887 the world's leading producer of water repelling preparations for garment fabrics



- This name, tied in with your water repellent service, will multiply sales!

Water Repellent With A National Reputation

Another important point—if you are proud of the quality of your service—here is the water repellent that year in and year out has been rated as highest in quality in the industry by the industry's leading testing institution.

Adding a good water repellent to your cleaning and dyeing service is like adding butter to bread or ham to

eggs. They go together with practically no addition to overhead yet offer attractive profit possibilities when you have a water repellent like "Cravenette" popular with people everywhere. Write us, and have us give you details—along with the complete merchandising service available to plants featuring "Cravenette" water repellents.

*For your
convenience!* ➡

THE CRAVENETTE COMPANY, U. S. A.

8th and Madison Streets, Hoboken, N. J.

Please send me full information concerning the "Cravenette" water repellent service for drycleaners.

Name

Position

Company

City State

BUCKEYE KLOR-LENE SAFER! MORE EFFECTIVE

BUCKEYE
YOUR ASSURANCE OF
QUALITY PRODUCTS

Buckeye quality products are sold
by distributors throughout the
United States and Canada.



The spotting solution for all
fabrics . . . even synthetics!

"On-The-Spot" action works on stubborn
stains quickly and safely. A powerful
but gentle solution, Buckeye Klor-Lene
gives excellent results on synthetic
fabrics, silks, upholstery, rugs . . .
ideal for dressing down white gloves
or cleaning belts and hats by hand.
Spotting synthetic fabrics is a job
well done with Buckeye Klor-Lene!

Use **BUCKEYE**
Klor-Lene to
remove:

- Paints
- Tar
- Oil
- Greases
- Waxes
- Chewing Gum
- Lipstick
- Rouge
- Nail Polish
- Powder Marks
- Salad Oil
- Furniture Polish
- Rubber Cement
- Shoe Polish
- Bottom Soils

SYMBOL OF QUALITY

THE **DAVIES-YOUNG**
SOAP COMPANY
BOX 995 DAYTON 1, OHIO

Producers of Quality Products for the Cleaning and Laundry Industry Since 1844

This Cleaner pocketed Overhead!
... when he selected **Columbia**

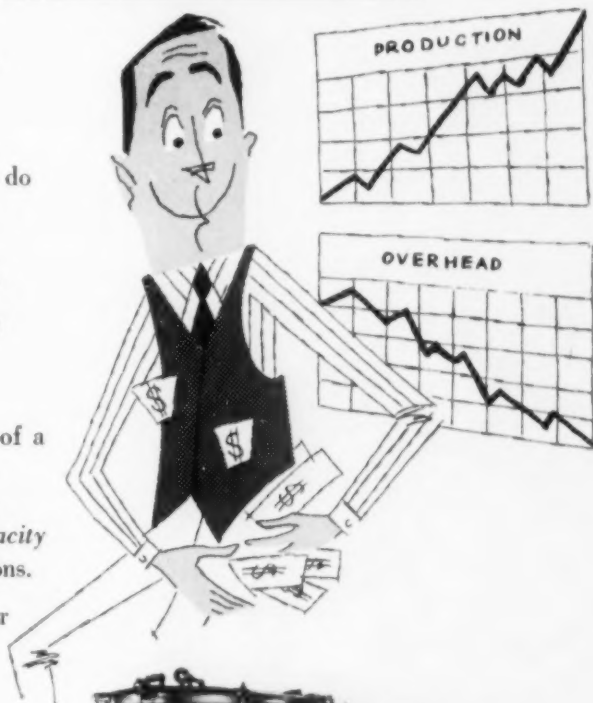
"It isn't the work, it's the overhead that's killing me!"

We heard that so many times from Cleaners across the nation we had to do something about it!

Our first blueprints for the new, automatic Columbia "One-Hundred" were urgently earmarked to eliminate the extra "overhead!"

That meant automatic cleaning, rinsing and extracting at the touch of a button, 98% solvent recovery from extracted garments, better filtering, elimination of waste plus *reserve capacity* to keep labor costs down in peak seasons.

You can see why Columbia has your financial independence in mind... see it first!



- Fully automatic. Load, start it... it cleans, rinses, extracts.
- Beautifully cleans 120 lbs. per hour. Soft, wrinkle-free cleaning makes finishing easier.
- Solvent Saver... recovers up to 98% after extraction from garments.
- 36" x 24" reserve load cylinder with automatic cylinder and water cut-off.
- Patented atmospheric still with 90 gallons storage capacity.
- 2100 gallon Hopkins filter.
- Washes, drains, extracts, traps buttons and removes lint automatically.
- * Automatic charge system available.

FULLY GUARANTEED—SOLD ON TERMS TO FIT YOUR POCKETBOOK!

Columbia
APPLIANCE CORPORATION

47-47 35th STREET • LONG ISLAND CITY 1, N. Y.

COLUMBIA APPLIANCE CORP.
 47-47 35th Street, Long Island City 1, N. Y.

Send full information on the Columbia "One Hundred". Also send literature on the new Columbia Solvent-Saver tumbler.

NAME

FIRM NAME

ADDRESS

CITY ZONE STATE



suit
by
Claire McCardell . . .
cleaning
by Dow-PER

*Fine garments come through
cleaning cycles beautifully!*

What a relief to know that the most expensive garments can be cleaned safely. Dow-PER® does the job every time. The attractive suit illustrated was cleaned in a modern plant—without boosting unit costs. The proprietor reports that his cleaning cycle, using Dow-PER *stabilized* perchloroethylene solvent, removed all traces of soluble soil . . . no streaks, cloudy areas or other troublemakers.

Your Dow distributor can name many operators who achieve comparable results. All Dow distributors are carefully selected to offer full cooperation to the dry cleaning industry. Their long experience helps solve plant problems . . . backed by the recognized authority of Dow's Technical Service Department. And your distributor offers Dow's famous "Manual" series, and other informative literature. Best of all, he can offer immediate delivery on Dow-PER. THE DOW CHEMICAL COMPANY, Midland, Michigan.

you can depend on
DOW SOLVENTS



FORWARD WITH

Cook WASHETTES



★ TWIN "25" WASHETTE

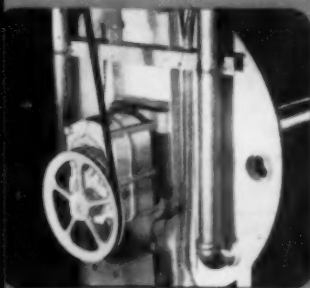
★ 25-LB. JUNIOR WASHETTE

★ 50-LB. MASTER WASHETTE

★ 75-LB. SENIOR WASHETTE

★ 100-LB. CENTURY WASHETTE

- ★ GARLOCK WATER SEAL
- ★ BRASS DOOR AND HARDWARE
- ★ STAINLESS STEEL WITH ALL-WELDED CONSTRUCTION
- ★ FURNISHED IN MANUAL, SEMI-AUTOMATIC, AND FULLY AUTOMATIC



The DODGE DIRECT REDUCING GEAR

This new reducing gear increases efficiency with less friction and motor strain. The mounting arrangement requires no flexible couplings or costly adjustments.



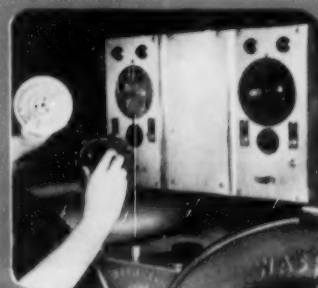
The COOK EXTRACTOR

The Cook Extractor is available in 20 and 26 inch models—stainless steel constructed with Hamilton basket—now featuring a new safety device which prevents cover from opening while the basket is spinning.



The COOK ALL-PURPOSE LAUNDRY CART

The stainless Steel basket lifts free of tubular aluminum frame for easy emptying. The cart is mounted on swivel type casters for maneuverability. Capacity 25 lbs. Height 33 inches.



The QUICK CHANGE FORMULA DIAL

In 20 seconds or less you can change the formula on a Cook Washette as easily as winding your watch. Cook offers six standard dials with two or more formulas on each dial.

See your
COOK DISTRIBUTOR
today.

Cook MACHINERY COMPANY INC.
4102 COMMERCIAL ST. DALLAS, TEXAS

Proof FROM **Better Cleaning** PHILLIPSBURG • N. J. with the **H-JET II!**

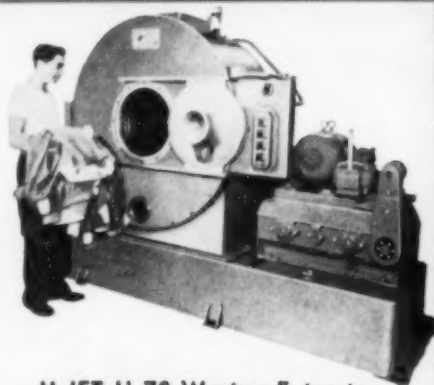
*Fine Clothes
Tailored to Your Measure*

JOSEPH PIAZZA & SONS
140 So. Main St., Old 6-1923
Phillipsburg, New Jersey
Cleaning • Pressing • Repairing
Dyeing
Suits Made To Measure

January 25, 1954

...Never before in all our 30 years in the cleaning business were we able to accomplish so much work in the operation of one machine. We should be very happy to have representatives of your company visit our plant... to bring with them anyone who is interested in seeing this great machine in action...

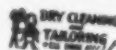
Joseph Piazza



H-JET II-70 Washer-Extractor



H-JET II-35 Washer-Extractor



BAUMGARTNER'S
CLEANING AND TAILORING - SUITS MADE TO ORDER
ALTERING AND REPAIRING
AS HYDRAULIC ST.
PHILLIPSBURG, N. J.

January 15, 1954

...I have never before taken the occasion to write to a manufacturer in testimony of a piece of equipment, and have always taken a rather dim view of those that did... Prior to my going with this business I was employed in a machine shop. I think I'm qualified to say this is the finest, most solidly constructed machine I've ever seen. Please feel free to invite any skeptics to watch my machine in action...

Joseph Baumgartner



Hoffman



U. S. HOFFMAN MACHINERY CORP. • 105 FOURTH AVENUE, NEW YORK 3, N. Y.

**CANADIAN HOFFMAN
MACHINERY CO., LTD.**
126 DUNDAS ST. W., TORONTO, ONT.

another great first in modern drycleaning!

WE, THE JURY, SAY:

"we have never
seen anything like

triple-acting
SPEEDWAY
spray-spotter

One Solution—For use in Pressure
Spray Tank—Just apply it three ways...

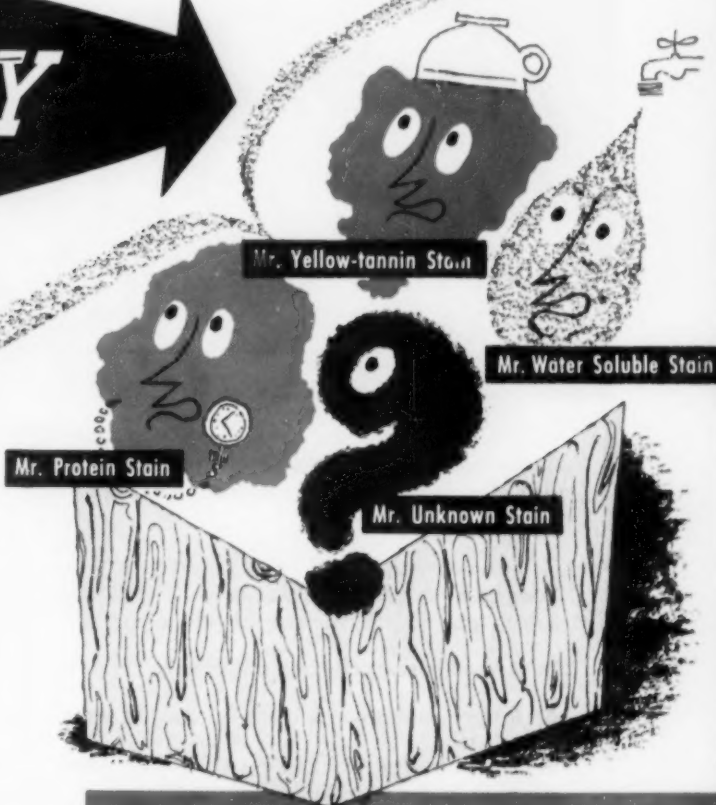
You've got to try it . . . Speedway gives you triple-action, all around stain removal with big savings in time and money. Amazing Speedway action eliminates over 90% of stains, is so safe on fabrics and colors that even inexperienced help can do effective spotting. Spray application simplifies and speeds stain removal and is valuable as a pre-spotter or post-spotter. Speedway is concentrated . . . one gallon makes six gallons of spray mixture. Every plant should have Speedway!

triple-acting

1. SPRAY AND BRUSH
... Removes water soluble stains
2. STEAM, FLUSH AND FEATHER
... Removes yellow and tannin stains
3. SPRAY AND WAIT!
... Removes protein spots

GET TRIPLE-ACTING SPEEDWAY TODAY!
if your jobber can't supply you, order direct!

SPEEDWAY CHEMICAL CO.,
2029 PARK • DETROIT 26, MICH.



Speedway Chemical Co.
2029 Park, Detroit 26, Michigan

☐ Please send one case of SPEEDWAY SPRAY SPOTTER. Our check for \$27.80 is enclosed. Use first gallon of Speedway. If you are not completely satisfied, return the three unused gallons within 30 days and your money will be refunded.

☐ Have your representative call.

NAME OF FIRM

ADDRESS

CITY ZONE STATE

10 REASONS WHY...

For Quality Cleaning...

YOUR FIRM'S NAME and address

CALL
Phone No.

Assembled CAPED HANGERS ARE YOUR BEST BUY!

1. Being assembled, these hangers save the dry cleaning industry thousands of expensive man hours.
2. The convenience of having printed caped hangers all assembled and ready when needed, brings order and system to your cleaning plant.
3. Art work is colorful and pleasing to the eye.
4. Printing is sharp and clear ... easy to read.
5. White paper is the best obtainable. Adds strength to the hangers.
6. Capes have two complete walls (a front wall and a back wall). The advertising mes-

sage printed on the front wall is not weakened by light from the back.

7. Capes are tailored to the hangers which they cover. Cannot shift their position.
8. Just right for dresses, blouses, coats, sweaters, sport shirts, etc.
9. You and your customers will like them. They're new, clean, and crisp.
10. The printing can carry a strong advertising message!

Assembled Caped Hangers are easy to obtain. Call a Cleaners Hanger jobber, or write us direct!

CLEANERS HANGER CO.

18140 JAMES COUZENS HIGHWAY
DETROIT 35, MICHIGAN

Plants: Cleveland • Baltimore • Gadsden, Ala. • Pueblo, Colo.

This ONE Machine

DOES ALL ALTERATION WORK . . .

BLIND STITCHES BEAUTIFULLY ON ALL MATERIALS

U. S. Model 518-2 Does the Work of 2 Machines

HEMMING • REINFORCING • FINISHING

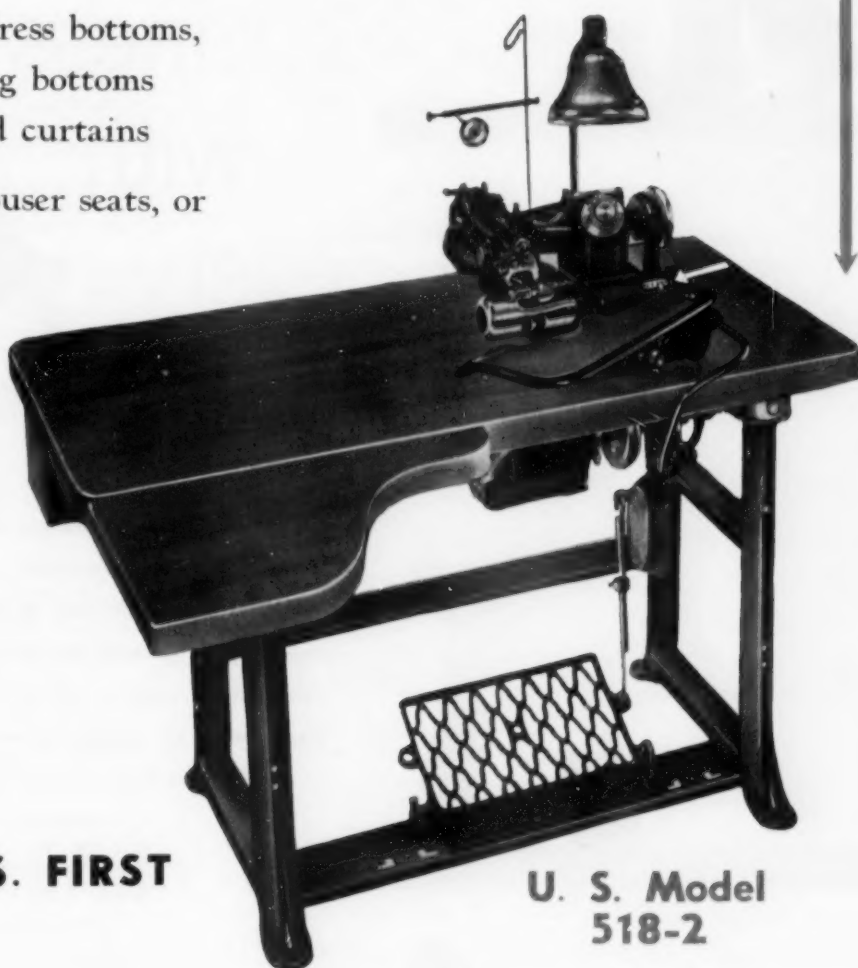
with speed, economy and satisfaction

HEMS skirt and dress bottoms,
coat and coat lining bottoms
cuffs, draperies and curtains

REINFORCES trouser seats, or
wherever needed

Dial regulates
proper needle
penetration for
any type material.

USE GENUINE
U. S. NEEDLES
ONLY



SEE THE U. S. FIRST

**U. S. Model
518-2**



U. S. BLIND STITCH MACHINE CORP.

312 Seventh Ave.

New York 1, N. Y.



It
advertises
your
business
with
every
step!



Many prospective customers see . . .

and remember . . . your name and message

printed on a trim, eye-catching International Garment Bag.

Advertise your business each step of the way . . .

every day . . . and at trifling cost! Your regular

paper dealer can supply you with International

Garment Bags—printed or unprinted.

Call him today.


International Paper COMPANY

SOUTHERN KRAFT DIVISION

220 East 42nd Street, New York 17, N. Y.

THERE'S MONEY IN "ON LOCATION" CLEANING AND IT'S ALL OVER "YOUR TOWN"

YOU CAN GET IT —

with
**THE
MULTI-CLEAN**
Method

DID YOU KNOW that approximately 90% of the rugs and carpeting in your town has never been cleaned professionally?

DID YOU KNOW that about 50% of the new homes in your town have wall to wall carpeting not to mention the scores and scores of older homes, the many business establishments and offices?

DID YOU KNOW that it is possible for you to make up to \$150 a day with two men and The Multi-Clean Method by "on location" rug and carpet cleaning?

DID YOU KNOW that you can get into this lucrative "on location" business using the tested and proved Multi-Clean Method for under \$1,000?

DID YOU KNOW that a factory-trained Multi-Clean representative will start you off right, will show you everything about The Multi-Clean Method, and our Multi-Clean sales aid plan will help you develop new business and keep old customers.

Don't let this money making opportunity slip by you any longer. If you're already doing some "on location" work but haven't discovered the extra profit advantages you get with The Multi-Clean Method by all means write today for further details!

**SEE MULTI-CLEAN IN ACTION
AT THE NIRC BOOTH NO. 4**

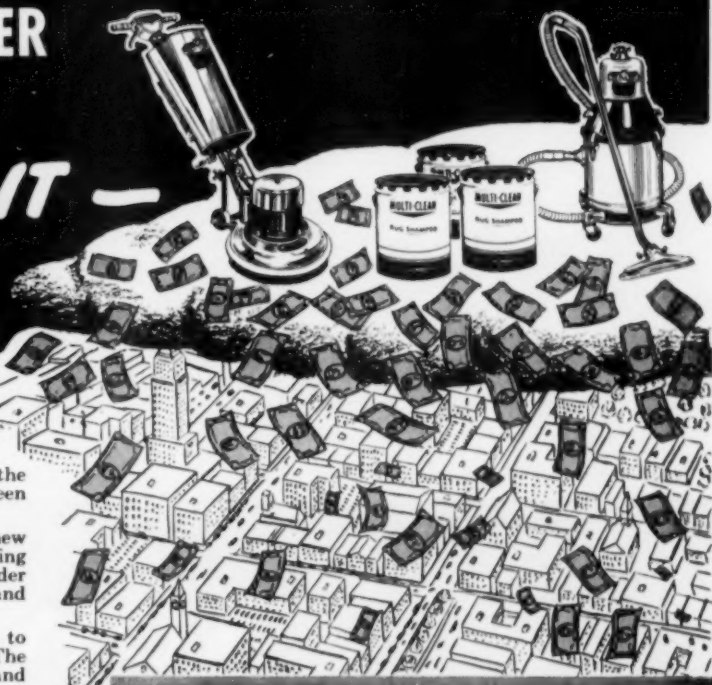
IN THE PLANT—For high production work in your plant the Multi-Clean plant type scrubber with water and solution line connections is ideal. All Multi-Clean rug scrubbers and wet-dry vacuum cleaners are superior in design and workmanship. They are built to rigid specifications in our own factory, from high quality materials guaranteeing long, trouble-free life. Multi-Clean machines are made in sizes to fit your exact needs.

MULTI-CLEAN®

PRODUCTS, INC.

2277
FORD PARKWAY

ST. PAUL 1,
MINNESOTA



YOUR SUREST WAY TO BIGGER PROFITS! —THE MULTI-CLEAN METHOD

With The Multi-Clean Method, which combines the use of Multi-Clean equipment and materials in the right combination, you can do the kind of work that will please your customers and assure repeat orders. The work will be easier and more economical to handle, too, thus assuring you bigger profits.

PROFIT CHART



FREE!—RUG CLEANING MANUAL

This manual is written especially for the professional rug cleaner. It presents a step by step procedure, fully illustrated, on how to clean carpets and rugs by The Multi-Clean Method.

MAIL THIS COUPON TODAY!

MULTI-CLEAN PRODUCTS, INC.

2277 Ford Parkway, Dept. NC-4, St. Paul 1, Minnesota

Gentlemen: I would like the rug cleaning manual, also tell me more about The Multi-Clean Method and how I can profit by it.

I'm interested in: ☐ Scrubber; ☐ Vac; ☐ Cleaning Chemicals.

Name _____

Address _____

City _____ Zone _____ State _____



WET-DRY
VACUUM CLEANERS



SCRUBBING
MACHINES



FLOOR
MACHINES



FLOOR TREATING
MATERIALS

New

Diamond
Perchlorethylene

...gives better cleaning results than ever



If you use perchlorethylene, ask your distributor about DIAMOND's new improved solvent that gives better cleaning results than ever before. Developed through DIAMOND research, it is designed to meet the needs of modern dry-cleaning techniques, including uncharged systems or single- or double-bath charged systems. Its higher degree of stability means more economical cleaning and better solvent recovery.

After thorough field tests in plants using all commonly used systems, new DIAMOND Perchloroethylene proved superior to all comparable products. Plant workers especially preferred its new, pleasant aroma and reported brighter colors and greater cleaning efficiency.

To gain all of these advantages, make sure you specify DIAMOND Perchloroethylene on your next solvent order.

Order New Diamond Perchloroethylene Today

For the name of your nearest Diamond distributor, call your local Diamond Sales Office or write Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14, Ohio.

Diamond Sales Offices

New York	Chicago
Philadelphia	St. Louis
Pittsburgh	Memphis
Cleveland	Houston
Cincinnati	

Also, representatives in other principal cities.

Diamond Alkali Company

Cleveland 14, Ohio



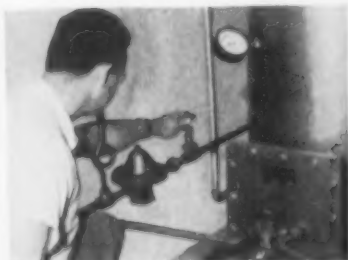
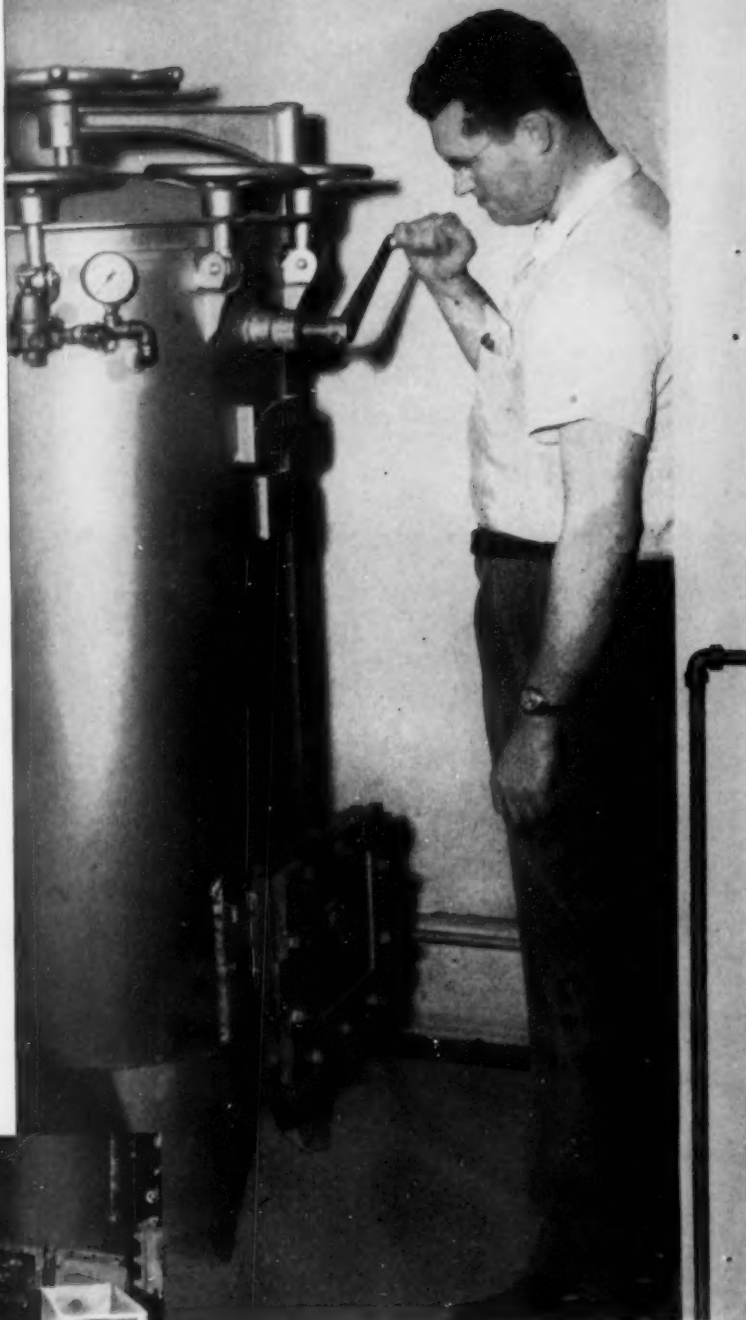
"My **BUTLER** **Big-Flo[®]** Filter **earns \$800⁰⁰** **a year in** **solvent savings!"**

Says C. E. Vannatter, Manager
Farmland Dry Cleaners, Farmland, Ind.

"My Butler Big-Flo Filter, with mechanical scraper and pump suction Air Cleanout, is saving me at least \$800 worth of solvent a year!" says Mr. Vannatter. "The Butler Big-Flo requires less powder than any filter I have ever used before. Forty pounds of clothes take only two ounces of powder."

"Reduction of cost, however, isn't the only advantage of Butler Big-Flo filtration. Clean, fresh solvent also gives us more pass-ups, and brighter colors!"

"Our Big-Flo Filter, together with other Butler equipment, helps us do top quality work in a hurry. This pleases customers—keeps our business growing. The rugged construction of the entire line of Butler cleaners' equipment cuts our costs by reducing maintenance and replacement."



"Effortless air cleanout saves time and bother. The big capacity of the Butler filter makes cleaning a once-a-month job."



"There's no mess. The powder you clean out is so dry you can shovel it into a pasteboard carton. Eliminates handling of solvent-soaked muck."

"Scrape-down takes only five minutes with our new Butler Big-Flo filter. This is six times faster than some filters that I used in the past," states Mr. Vannatter. Whatever the capacity of your washer, you can get a Butler Big-Flo pressure filter with the right size and capacity to match it—and result in faster work with cleaner, brighter colors and cleaner whites at lower cost.

No matter what cleaning equipment you need—CALL BUTLER FIRST



BUTLER MANUFACTURING COMPANY

7452 East 13th Street, Kansas City 26, Missouri

Manufacturers of Oil Equipment • Steel Buildings • Farm Equipment • Cleaners Equipment • Special Products

Factories located at Kansas City, Mo. • Galesburg, Ill. • Richmond, Calif. • Birmingham, Ala. • Minneapolis, Minn.



why push your luck?

SOLVENT OVERHEATING CAN WIPE OUT YOUR PROFITS OVERNIGHT



play it safe

WITH A LOW COST ROSS SOLVENT COOLER

Damaged garments, lost working hours and complaining customers can ruin your business in no time at all. Why take the chance? It costs so little to stop solvent overheating completely with a Ross Type BCF Cooler . . . and you'll be money ahead every day. Once you put this easy-to-hook-up unit on the job, solvent temperatures will never get out of hand to rob you of your rightful earnings. It's the cheapest profit insurance you can buy!

No longer need you worry about overheated solvents causing stubborn wrinkles, difficult spot removal and poor cleaning quality eating up your time . . . Sickening fumes that sap the strength of your workers — keep them at home,

especially in hot weather . . . Color bleeding, shrinkage, relaxation, "felting," ruined sizing and dressings that cause customers to drift away . . . The risk of fire and explosion.

Don't wait for warm weather. The risk of loss exists all year 'round. Send the coupon today for literature and prices or ask your equipment distributor about this rugged, little, copper-brass cooler that will work wonders in your plant.

KEWANEE-ROSS CORPORATION

DIVISION OF AMERICAN RADIATOR & STANDARD SANITARY CORPORATION

1469 WEST AVENUE • BUFFALO 13, N. Y.

In Canada: Kewanee-Ross of Canada Limited, Toronto 5, Ont.



SOLVENT COOLERS

KEWANEE-ROSS CORPORATION

1469 West Ave., Buffalo 13, N. Y.

Rush literature and prices on your solvent cooler at no obligation to me.

NAME _____ TITLE _____

COMPANY _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

Serving home and industry: AMERICAN STANDARD • AMERICAN BLOWER • CHURCH SEATS & WALL TILE • DETROIT CONTROLS • KEWANEE BOILERS • ROSS EXCHANGERS • SUNBEAM AIR CONDITIONERS

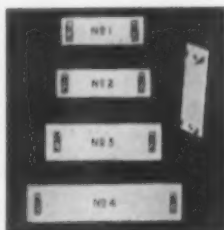
For April, 1954

When writing to advertisers please mention The NATIONAL CLEANER & DYER

205



**Your Distributor Will Fill Your Order
for BOSTAG MARKING NEEDS**



**Genuine
PEERLESS BEACON TAGS**

Smooth-edged zinc prongs are tapered to enter and leave fabric without damage. Prongs are anchored, always firm and straight, yet fully pliable for quick attaching and removing. Triple-fold 80 x 80 count cotton cloth, non-fraying — special easy writing finish for pen or machine marking. Also fibre, 5 sizes. White and Standard Colors.
Also HALF TAGS cut straight or diagonally. SINGLE STAPLE TAGS.

**BOSTAG
TAGGING MACHINES**

Attach Peerless Beacon Tags faster than by hand—saving time, labor and money. Prongs are turned under for safety and smoothness. Easy, simple operation for ALL Peerless Beacon Tags. 4 Machines for Nos. 1-2-3-4 Tags. No. 4 Machine handles Half 5's.



TAG-A-DAY TAGS



Plain—or printed with days of the week, Monday through Saturday. White and six standard colors. Highest quality 80 x 80 count cotton cloth, also fibre. Size 1 7/16" x 2 1/4", packed 1000 to box. Standard color set-up on days of the week.

MON: Blue THURS: Orange
TUES: Red FRI: Yellow
WED: Pink SAT: Green

SPECIAL: White

Also Lavender, Gray, Tan.

SPECIAL PRINTING, at nominal extra charge, may be had on any tag.

The HUB PERFORATING TAG

Indestructible—not affected by soaps, acids, gasoline, solvents, or boiling dye. White only.

No. 1—1" x 2 1/2" No. 3—1" x 3 1/2"
No. 2—1" x 3" No. 4—1" x 3 1/2"

**ACE of SPADES
INDELIBILE INK**

Intense, jet black. Highest quality. Free-flowing. Clean-marking. Impervious to action of strong solutions; does not turn brown in laundering or dry cleaning.

REDUX INDELIBILE INK
REMOVER

**ACE of HEARTS
RED INK**

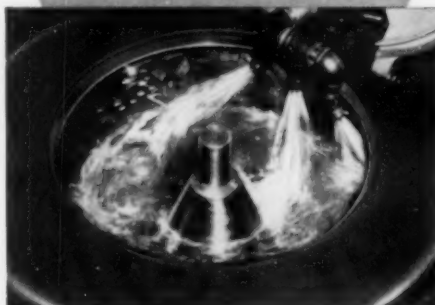
• A B SOCK TAGS • EZ-OFF IRON CLEANER

Write for Descriptive Detailed Circular



All
Fully
Guaranteed

**STEP UP
PRODUCTION
CUT DOWN
LABOR COSTS
with**



Fletcher

**FLOW-RINSE
EXTRACTORS**

Scientifically designed to give you the best results in both the rinsing and extracting operations, the new Fletcher Flow Rinse makes it possible for you to substantially increase your hourly capacity and at the same time save on labor.

The Flow Rinse extractor is completely automatic, and so arranged that the garments being rinsed are completely immersed in the solvent while the basket is oscillated back and forth. This insures effective, uniform rinsing of every garment. The basket then spins at extracting speed to complete its cycle. There is full salvage of soap and rinse solution.

Fletcher Flow Rinse Extractors are available in 40", 48" and 60" basket diameters. Write today for further information.

FLETCHER WORKS

212 GLENWOOD AVE. PHILADELPHIA 40, PA. ESTABLISHED 1850

HERE IS PLAIN PROOF that the **PARIS** finishes MORE GARMENTS with FEWER TOUCH-UPS

FACT #1

FACT No. 1 . . . The efficiency of any garment finisher depends on the extent to which it applies pressure to all areas of the garments; because steaming unaided by pressure merely preconditions as does a "Steaming Sue".

In other words, the range of the form's size, from how small to how large, determines how many touch-ups, if any, have to be made.

And remember—the way to get the most for your money when you buy your garment finisher is to look at both and don't buy either until you do. Then you can decide correctly which is the better finisher for your plant. So be certain. Examine and compare both. Use the check list below as a "yardstick" for making your impartial judgment.

FACT #2

FACT No. 2 . . . The "PARIS MASTER" is instantly adjustable to a smaller size and to a larger size than is any other garment finisher. Hence, among all steam-air machines, the Paris yields the most pass-ups and requires the fewest touch-ups.

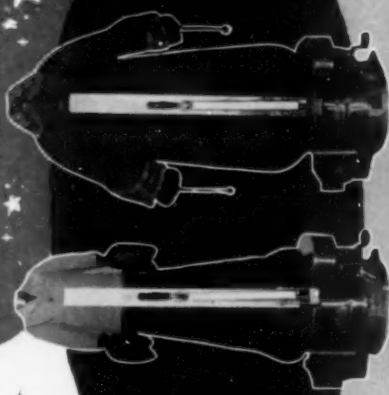
And remember—the way to get the most for your money when you buy your garment finisher is to look at both and don't buy either until you do. Then you can decide correctly which is the better finisher for your plant. So be certain. Examine and compare both. Use the check list below as a "yardstick" for making your impartial judgment.

COMPARE WITH THIS CHECK LIST

		PARIS FINISHER	OTHER FINISHER
1.	Is the shoulder size instantly adjustable?	Yes	No
2.	Are roll sleeves finished automatically?	Yes	No
3.	Does the form turn so the operator can stand still?	Yes	No
4.	Is minimum steam used without operator discomfort?	Yes	No
5.	Is minimum floor space required?	Yes	No
6.	Can suede and all fur trimmed garments be finished safely?	Yes	No
7.	What is the basic construction material?	Stainless steel	Black iron

WRITE US FOR ADDITIONAL INFORMATION
GARMENT FINISHING EQUIPMENT CORP.
Exclusive U. S. A. Distributors for Paris Mfg. Co., Sales Office: 18 Rutledge St., Cambridge 38, Mass.

PARIS RANGE IN SIZE
IS UNMATCHED!



THIS IS THE SAME MACHINE

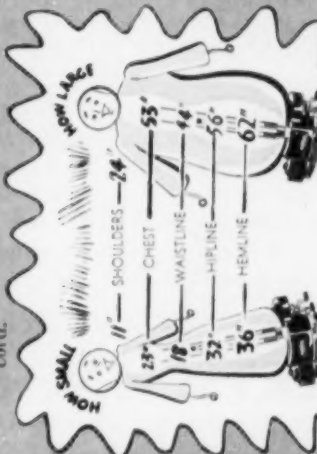
Only three adjustments—taking 6 seconds—were made MANUALLY to change the size from small to large, as pictured:

- ★ Zippers were pulled down, hence opened up.
- ★ Rings on the sleeves were pulled down.
- ★ Shoulders were expanded by pulling a cord.

The other remarkable changes in size were entirely AUTOMATIC. See the actual range of measurements below.

A glance at these figures—drawn to scale—shows the tremendous UNMATCHED range in size of PARIS Finishers—108%. This is three times the expansion range—37% of the Other Finisher.

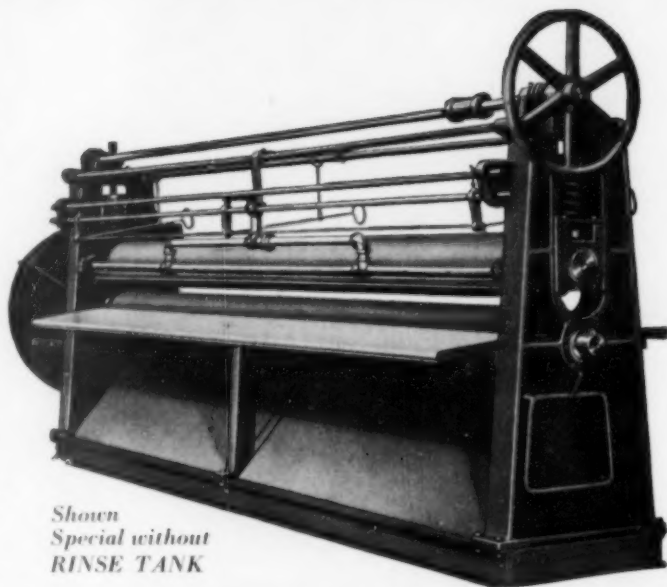
Ask your lobbyist to show you a new model PARIS finisher. If you wish, he can plug it in any light socket; then even without steam, you can see for yourself why THE PARIS TURNS OUT BETTER WORK FASTER.



THE BERTSCH RUG WRINGER

COMPARED TO A VACUUM DRYER:
Wringers reduce cleaning costs 70 to 75% because of savings in labor, power, dry room heat and water consumption. Wringers double your scrub floor and dry room output. In addition they make rugs cleaner, eliminate bleeding and lay nap evenly.

COMPARED TO COMPETITIVE WRINGERS: BERTSCH Wringers have heavier and better materials thru-out, therefore extract more water resulting in shorter dry room time, require less maintenance expense and have longer life. Our machines give you more service and life for your dollar and in addition are actually lower priced because of our manufacturing equipment and because we sell direct to the user.



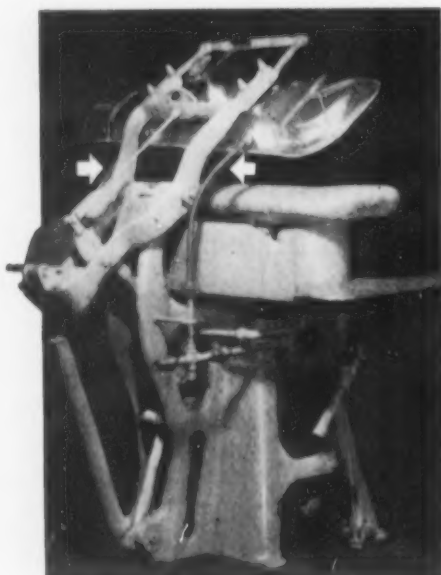
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Special without
RINSE TANK*

BERTSCH & CO.

EST. 1879
INC. 1911

CAMBRIDGE CITY, INDIANA

Designers, Builders, Distributors of special heavy machinery



STEAM-FLEX

Eliminates Leaky Joints

Prevents Costly Escape of Steam

Drycleaners! Laundries! Press Shops! You can improve your press operations with Steam-Flex—the flexible metal steam hose that eliminates leaky joints and prevents costly, uncomfortable escape of steam. Its extreme flexibility makes head operation an easier job. Its extreme durability eliminates maintenance and helps you keep your machines on the job. Steam-Flex is made of corrosion-resistant corrugated bronze, is easy to install and designed for use on any press. Write for the handy Steam-Flex selector folder.

CHICAGO METAL HOSE Division

Flexonics

Corporation

1306 South Third Avenue, Maywood, Illinois

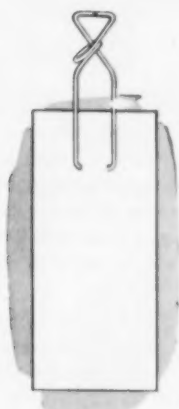
Manufacturers of flexible metal hose and conduit, expansion joints, metallic bellows and assemblies of these components.

In Canada: Flexonics Corporation of Canada, Ltd., Brampton, Ontario

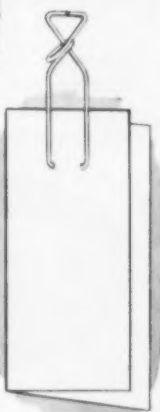
Flexon identifies
CMH products that
have served industry
for over 50 years.



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**or
two
ply**

DAILY DELIVERY TAGS

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*T/M American Cyanimid Co.

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— the multi-purpose synthetic detergent



Take the headaches out of DRAPERY CLEANING with *Anderson* EASY-LOCK DRAPERY PROTECTOR



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State _____

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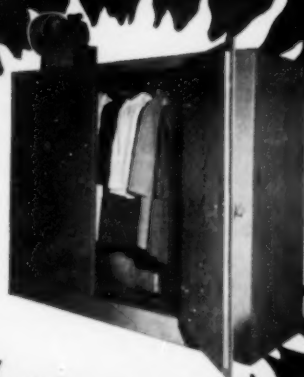
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Features exclusive Heatmaster heating unit with Hopkins Turbo-duct up draft system. Triple "aircel" insulation. Sturdy hardware. Sliding or swinging door available.



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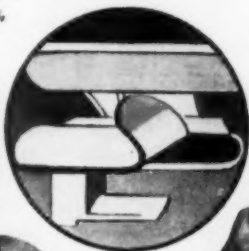
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The Stadham 'cover' girl says:— Call your Stadham distributor
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The
press cover
that is
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unconditionally
for 3 months

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This high porosity, non-slip, non-stick cover is made for all dry cleaning presses, manually operated or air driven, where a quality finish is desired. The extra-fine weave of the spun and filament nylon yarns are "Stadham" scorch-resistant—treated to insure longer wear.



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It is the only moving part in a Yarway Impulse Steam Trap, and it floats on the condensate load. When steam is turned on, the little valve opens wide . . . discharges condensate and air *continuously* and brings the equipment to *production temperature in the shortest possible time*. After that, it passes, with a pulsating action, all condensate as it forms—*keeps a maximum, steady temperature in the equipment*. Result to you—more production per day.



This little valve floats on the load—keeps hot steam in the equipment all the time.

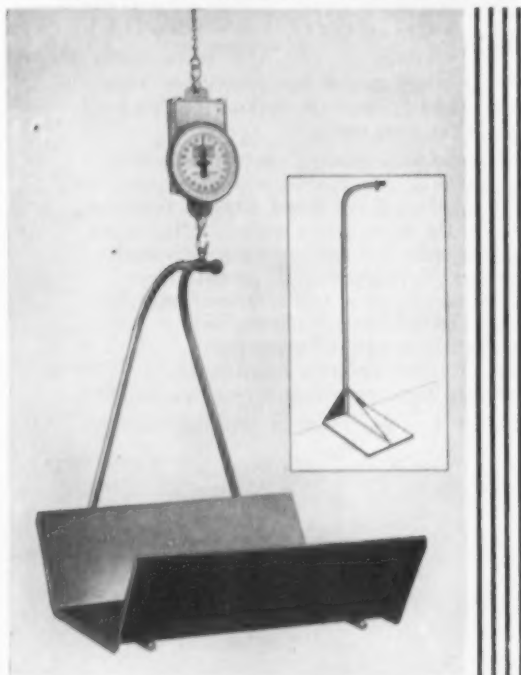
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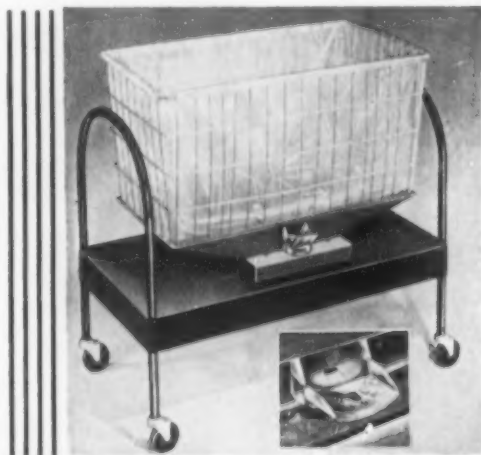
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ECONOMY HANGING SCALE \$39.75

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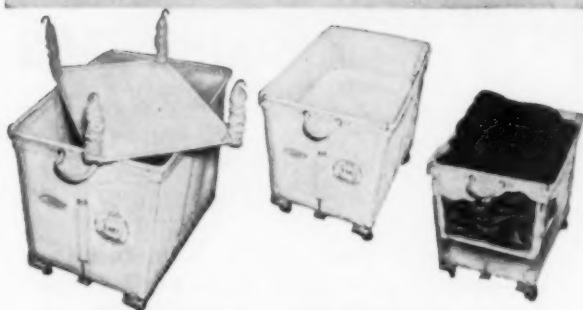
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- Lift platform constructed of smooth non-snagging Lane canvas reinforced with a steel frame.
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- Light-weight, extra-strong patented spring-steel frame.
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No.	Long	Wide	Deep
6	30"	20"	20 1/2"
8	34"	22"	23"
10	36"	24"	25"
12	36"	26"	27 1/2"
14	40"	28"	27 1/4"
16	40"	28"	30"
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*Lift hooks over 4 corners of truck rim, forming raised artificial bottom. As weight of load increases, lift platform drops to allow filling of truck. As weight decreases, platform rises—completely eliminates stooping and bending. Lift available for all standard truck sizes. Either truck or lift are available separately.

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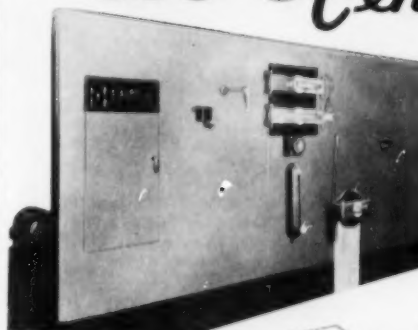
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**SYNTHETIC
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Strong Soap
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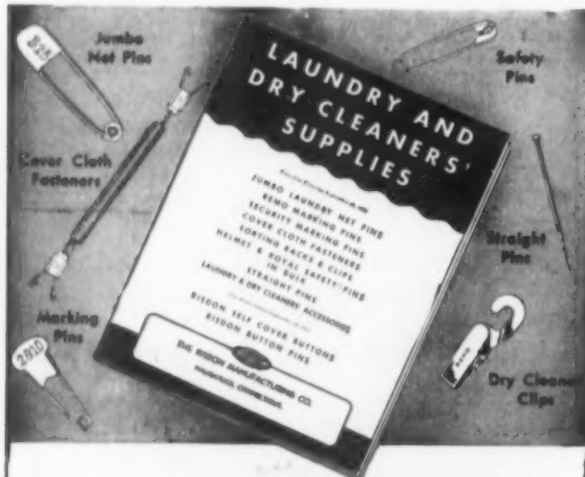
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OCCO SELF-BALANCING and STANDARD
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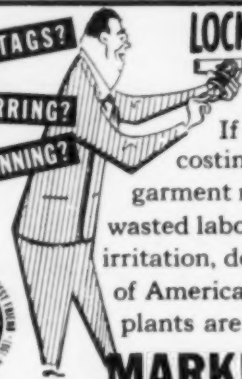
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RISDON

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RI-2

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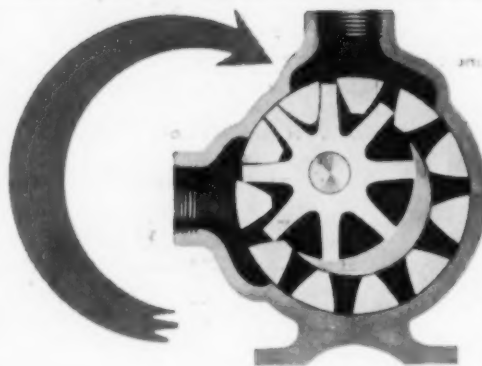
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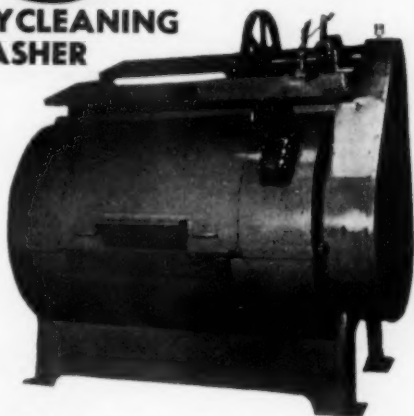
VIKING PUMP COMPANY
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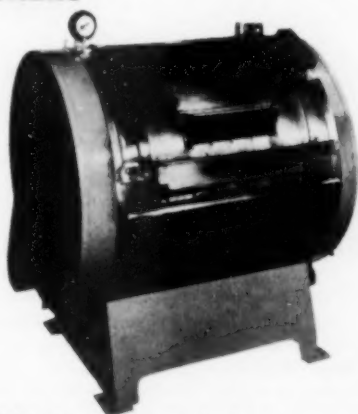
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INCH FOR LAUNDRIES & DRY CLEANERS
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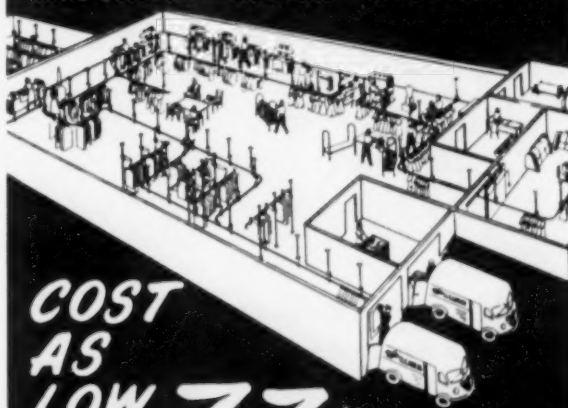


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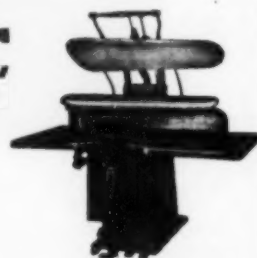
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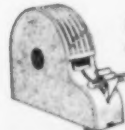
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staples temporary identifica-
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You Will Have The Best
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Sizes 15" 17" 20"

BOCK LAUNDRY MACHINE CO.
TOLEDO 2, OHIO



I like my clothes fresh, with
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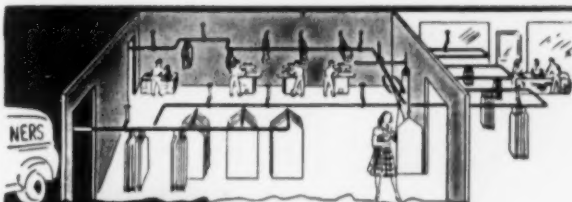
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-San.**

Aerosol Spray Deodorant

write for FREE SAMPLE



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Huntington, Indiana
Philadelphia 35, Pa. • Toronto 2, Ontario



SAVE UP TO 50%
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COSTS

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SHOWS HOW!



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FOLDER

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Jobber _____

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14th St. & Lafayette Ave., Kenilworth, N. J.

DIRECTORY SECTIONS

The Guidebook of the Drycleaning Industry

▲ CLASSIFIED DIRECTORY . . . PAGE 219

In this section supplies and equipment used by the drycleaning industry, with their manufacturers, are listed alphabetically for easy reference. Products are listed by noun—for example, "Soaps, Wetcleaning," rather than "Wetcleaning Soaps"—except where the two words are joined together by common usage, as in "Sleeve Shapers," rather than "Shapers, Sleeve." The directory is also thoroughly cross-referenced for greater convenience. Display advertisers are listed in bold face type. For page numbers of display advertisements see the Advertisers' Index on page 353.

▲ TRADE NAMES PAGE 284

An alphabetical list of trade names of supplies and equipment used in the drycleaning industry, with a description of each product and its manufacturer.

▲ MANUFACTURERS PAGE 306

An alphabetical list of all equipment and supply manufacturers with their addresses. When you have found the name of the firm which manufactures the product in which you are interested under the "Classified Directory" or "Trade Names" section, consult this list for its address.

▲ LOCAL BUYERS' GUIDE . . . PAGE 315

This geographical classification of sources of supply provides complete buying information for the drycleaning industry. Here the cleaner will find the jobbers' or manufacturers' branches serving his own community. Firm names followed by (E) are jobbers for equipment; firm names followed by (S) are jobbers for supplies, and firm names followed by (E & S) are jobbers for both equipment and supplies. Bold face type indicates display advertisers. For page numbers of advertisements giving complete product descriptions see Advertisers' Index on Page 353.

Every effort is made to insure the completeness and accuracy of the following directory sections. However, this information is published as a service, and no guarantee against errors or omissions is expressed or inferred. Additions or corrections are invited at any time. Please address the publisher.

CLASSIFIED DIRECTORY

**manufacturers of equipment and supplies
used in the drycleaning industry**

ABSORBERS, ODOR

Carbide & Carbon Chemicals Corp., Unit of
Union Carbide & Carbon Corp.
Davies-Young Soap Co.
Keystone Chemical Co.
Schutte & Koerting Co.

ABSORBERS, VIBRATION

Aetna Felt Co., Inc.
**American Brass Co., American Metal
Hose Branch**
Eclipse-Pioneer Div., Bendix Aviation Corp.
Flexonics Corp.
Johns-Manville
Johnson Metal Hose, Inc.
M B Mfg. Co., Inc.
Raybestos-Manhattan, Inc.
Salomon, L. A., & Bro.
U. S. Rubber Co.

ACCOUNTING MACHINES AND SYSTEMS

Burroughs Adding Machine Co.
National Cash Register Co.
Recordak Corp.

ACETATE, ALUMINUM

See: Aluminum Acetate

ACETIC ACID

DuPont de Nemours, E. I., & Co., Inc.
General Chemical Div., Allied Chemical & Dye
Corp.
Hachuk Bleach Co.
Mallinckrodt Chemical Works

ACETONE

Carbide & Carbon Chemicals Corp., Unit of
Union Carbide & Carbon Corp.
DuPont de Nemours, E. I., & Co., Inc.
Mallinckrodt Chemical Works

ACID-RESISTING BUCKETS

See: Buckets and Pails, Acid-Resisting

ACID-RESISTING HARD RUBBER FITTINGS

See: Fittings, Acid-Resisting, Hard Rubber

ACID-RESISTING PAINT

See: Paint

ACID-RESISTING PIPE

See: Pipe, Acid-Resisting, Alloy

ACID-RESISTING TANKS

See: Tanks, Acid-Resisting

ACIDS

See: Acetic Acid, Oxalic Acid

ACTIVATED CARBON

Carbide & Carbon Chemicals Corp., Unit of
Union Carbide & Carbon Corp.
Darco Dept. (Atlas Powder Co.)
DuPont de Nemours, E. I., & Co., Inc.
Elgin-Refinite, Inc., Div. of Elgin Softener Corp.
Infileo, Inc.
Permutit Co.
Salomon, L. A., & Bro.
Stover Water Softener Co.

ADDING MACHINES

Allen, R. C., Business Machines, Inc.
Burroughs Adding Machine Co.
National Cash Register Co.

ADDRESSING EQUIPMENT

Addressograph-Multigraph Corp.

ADSORBENTS

See: Activated Carbon, Filter Powder

ADVERTISING POSTERS

See: Posters

ADVERTISING AND SALES PROMOTION MATERIAL

Allied Printing & Stationery Co., Inc.
Belnap & Thompson, Inc.
Capital Poster Service
Cappel, MacDonald & Co.
Credson Co.
Dipcraft Mfg. Co.



**WILL CARRY HOME
YOUR MESSAGE**

For Samples and Prices

Write—or Call FAirfax 1-6739

Also Latex Baby Pants, Bathing Caps,
Beach Bags

DIPCRAFT MFG. CO.

1238 Veskamp Street Pittsburgh 12, Pa.

Display Features
Edwards, Vincent, & Co.
Foster-Stephens, Inc.
Larick Mfg. Co.
Linen Suppliers Advertising Corp.
Martin, Rebs, Inc.



BOLD TYPE LISTINGS

*Indicates display advertisers. For more information about their products,
see the index of advertisers opposite the inside back cover for page numbers.*

Master, Geo., Div.
Nashua Gummed & Coated Paper Co.
Rubinoff, M., Inc.
Taylor Host, Inc.
Universal Match Corp.

AFTERCOOLERS

Davis Engineering Corp.
Ingersoll-Rand Co.
Johnson Corp.
Kewanee-Ross Corp.
Murray, D. J., Mfg. Co.
Patterson-Kelley Co., Inc.
Schutte & Koerting Co.
Whitlock Mfg. Co.
Worthington Pump & Machinery Corp.
Young Radiator Co.

AIR CLEANERS

Drico Industrial Corp.
Mine Safety Appliances Co.
Wright-Austin Co.

AIR COMPRESSORS

See: Compressors, Air

AIR CONDITIONERS

Brunner Mfg. Co.
Bryant Heater Div., Affiliated Gas Equipment,
Inc.
Carrier Corp.
Chrysler Corp., Airtemp Div.
Clange Fan Co.
Cuno Engineering Corp.
Curtis Mfg. Co.
Fairbanks Morse & Co.
Frigidaire Div., General Motors Corp.
General Electric Co.
Haertel, Walter, Co.
Kelvinator Div., Nash-Kelvinator Corp.
Minneapolis-Honeywell Regulator Co., Industrial
Div.
Murray, D. J., Mfg. Co.
National Ventilating Systems Div., National Sys-
tem of Garage Ventilation, Inc.
Petroleum Heat & Power Co.
Reliable Fur Storage Equipment Co., Div. Re-
liable Machine Works, Inc.
Trane Co.
Young Radiator Co.
Worthington Pump & Machinery Corp.

AIR COOLERS

See: Coolers, Oil, Water, Air

AIR ELIMINATORS

Armstrong Machine Works
Gorton Heating Corp.
Sarco Co., Inc.
Strong, Carlisle & Hammond Co.
Wright-Austin Co.

AIR FILTERS

Bonn, F. H., Co.
 Dress Industrial Corp.
Maertel, Walter, Co.
 Kaye & Macdonald, Inc.
 Master Products Co.
 Mine Safety Appliances Co.
 Minneapolis-Honeywell Regulator Co., Industrial Div.
 Strong, Carlisle & Hammond Co.
 Taco Heaters, Inc.
 Westinghouse Air Brake Co., Industrial Products Div.

AIR GAUGES

See: Gauges, Air

AIR HEATERS

See: Heaters, Air

AIR METERS

See: Meters, Air

AIR SEPARATORS

De Villias Co.
 Johnson Corp.
 Kaye & Macdonald, Inc.
 Kerkley, O. C., Co.
 Strong, Carlisle & Hammond Co.
 Wright-Austin Co.

AIR TANKS

See: Tanks, Air

AIR TRAPS

Anderson, V. D., Co.
Armstrong Machine Works
 Kaye & Macdonald, Inc.
 Kerkley, O. C., Co.
 Sarro Co., Inc.
 Squires, C. E., Co.
 Sterling Engineering & Mfg. Corp. (Templeton Mfg. Co.)
 Strong, Carlisle & Hammond Co.
 Wright-Austin Co.

AIR VACUUM SYSTEMS, PRESSES

See: Vacuum Systems, Presses

ALARMS, HIGH AND LOW WATER

Bailey Meter Co.
 Campbell, J. A., Co.
Cissell, W. M., Mfg. Co., Inc.
 Combustion Control Corp.
 Cutler-Hammer, Inc.
 Hapman-Dutton Co., Dutton Boiler Div.
 Johnson Corp.
Wisco Boiler & Engineering Co.
 McDonnell & Miller, Inc.
 Northern Equipment Div., Continental Foundry & Machine Co.
Schaub, Fred M., Engineering Co., Inc.
 Sterling, Inc.
 Wright-Austin Co.
Yarnall-Waring Co.

ALARMS, SIGNAL

B & G Machinery Co.
 Bidwel Mfrs.
 Campbell, J. A., Co.
Hammond Laundry-Cleaning Machinery Co.
Huesch Div., American Laundry Machinery Co.
 Leslie Co.
 McDonnell & Miller, Inc.
 Norman Control Co.
 Photoswitch, Inc.
 Rosenthal Mfg. Co.
 Sterling, Inc.
 U. S. Gauge Div., American Machine & Metals, Inc.
 Wright-Austin Co.

ALCOHOL

Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
DuPont de Nemours, E. I., & Co., Inc.

ALKALI COMPOUNDS, SPECIAL

Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
 Carlton Chemical Co., Inc.
Carman & Co., Inc.
Columbia-Southern Chemical Corp.
 Cowles Chemical Co.
Diamond Alkali Co.
Dow Chemical Co.
 Drew, E. F., & Co., Inc.
DuPont de Nemours, E. I., & Co., Inc.
 General Chemical Div., Allied Chemical & Dye Corp.
 Kelite Products, Inc.
 Kliegman Bros., Inc.
Kohnstamm, H., & Co., Inc.
Lewis National Corp.
 M & M Chemical Co.

National Milling & Chemical Co.
 North Coast Chemical & Soap Works
Pennsylvania Salt Mfg. Co.
 Philadelphia Quartz Co.
 Riverside Chemical Co., Inc.
 Robins, G. S., & Co.
 Solvay Process Div., Allied Chemical & Dye Corp.
 Spence Co.
Stadham Co., Inc.
Stauffer Chemical Co.
 Stearns, George, Chemical & Mfg. Co.
 Swift & Co.
 Thompson-Hayward Chemical Co.
 Turco Products, Inc.
 Van Chemical Co.
 Washine National Sands, Inc.
 Wyndotte Chemicals Corp.

ALKALI-RESISTING PAINT

See: Paint

ALUMINUM ACETATE

DuPont de Nemours, E. I., & Co., Inc.
 Mallinckrodt Chemical Works
 Wolf, Jacques, & Co.

ALUMINUM CASTINGS

See: Castings, Brasses, Bronze and Aluminum

ALUMINUM PAINT

See: Paint

ALUMINUM PIN CARRIERS

See: Pin Carriers

AMMONIA

Armour & Co., Industrial Soap Div.
Dow Chemical Co.
DuPont de Nemours, E. I., & Co., Inc.
 General Chemical Div., Allied Chemical & Dye Corp.
 Hachuk Bleach Co.
 Hood Chemical Co., Inc., Crescent Div.
 Mallinckrodt Chemical Works
 Matheson Chemical Corp.
 North Coast Chemical & Soap Works
Pennsylvania Salt Mfg. Co.
 Thoro Products Co.

AMMONIUM ACID FLUORIDE

See: Sour

ANGLE VALVES

See: Valves, Angle

ANILINE DYES

See: Dyes

ANTISEPTICS

Alrose Chemical Co.
Carman & Co., Inc.
 Davis Emergency Equipment Co., Inc.
 Drew, E. F., & Co., Inc.
DuPont de Nemours, E. I., & Co., Inc.
 Fairfield Laboratories
 General Dyestuff Corp.
 Germaclean, Inc.
Huntington Laboratories, Inc.
 Lincoln Research, Inc.
 Mallinckrodt Chemical Works
 Sterwin Chemicals, Inc.

APRON LACERS, LAUNDRY

See: Lacers, Laundry Apron

APRONLESS IRONERS

See: Ironers, Apronless

APRONS, ALLIGATOR-LACED

Benwall Mfg. Co.
 Carson Textile Co., Inc.
 Hettrick Mfg. Co.
Kohnstamm, H., & Co., Inc.
 Patek & Co.
 Victor Balata & Textile Belting Co.

APRONS, CANVAS OR DUCK

American Associated Cos.
 Benwall Mfg. Co.
 Bostwick-Batterson Co.
 Callaway Mills, Inc.
 Canvas Specialty Co.
Carman & Co., Inc.
 Carson Textile Co., Inc.
 Colorado Tent & Awning Co.
 Daniels, C. R., Inc.
 Fry Bros. Co.
 General Scientific Equipment Co.
 Hettrick Mfg. Co.
 Industrial Products Co.
 Keystone Coat & Apron Mfg. Corp.
Kohnstamm, H., & Co., Inc.
 Lanning Bag & Specialties Co.
Lewis National Corp.
 Manitowoc Cotton Goods Mfg. Co.
 Minnesota Chemical Co.
 Patek & Co.

Pittsburgh Waterproof Co.
 Robins, G. S., & Co.
 Southern Mills, Inc.
Stadham Co., Inc.
 Sterling Supply Corp.
 Tingle, Brown & Co.
 Troy Laundry Machinery Div., American Machine & Metals, Inc.
 Troy Sunshade Co.
 U. S. Rubber Co.
 Victor Balata & Textile Belting Co.
 Wagner Awning & Mfg. Co.
 Whitman Supply Co., Inc.

APRONS, CLIPPER-LACED

Callaway Mills, Inc.
Carman & Co., Inc.
 Carson Textile Co., Inc.
 Colorado Tent & Awning Co.
 Fry Bros. Co.
 Hettrick Mfg. Co.
Kohnstamm, H., & Co., Inc.
Lewis National Corp.
 Patek & Co.
 Pittsburgh Waterproof Co.
 Robins, G. S., & Co.
 Spence Co.
Stadham Co., Inc.
 Sterling Supply Corp.
 Thompson-Hayward Chemical Co.
 Tingle, Brown & Co.
 Troy Laundry Machinery Div., American Machine & Metals, Inc.
 Victor Balata & Textile Belting Co.
 Whitman Supply Co., Inc.

APRONS, WASHROOM

Bonn, F. H., Co.
 Daniels, C. R., Inc.
 Gates Rubber Co.
 Goodrich, B. F., Co.
 Hodge, Farwell & Co.
 Industrial Products Co.
 Mine Safety Appliances Co.
Newhouse Co.
 Resistoflex Corp.
 Schwartz, B. W., Co.
 Tingle, Brown & Co.
 U. S. Rubber Co.

ARCHES, FURNACE, FLAT SUSPENDED

McLeod & Henry Co., Inc.
 Mexico Refractories Co.
 Ramtite Co., Div. of S. O'Brien & Co.
 Reintjes, George P., Co.

ASBESTOS CEMENT

See: Cement, Asbestos

ASBESTOS COVERS AND PADDING

Aetna Felt Co., Inc.
 American Associated Cos.
Behrstock, L., Co.
 Benwall Mfg. Co., Inc.
 Bonn, F. H., Co.
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 Carey, Philip, Mfg. Co.
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 Southern Mills, Inc.
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Johns-Manville
 Tingle, Brown & Co.

ASH, SODA

See: Soda Ash (Sodium Carbonate)

ASSEMBLY CIRCUITS

See: Conveyors, Manual

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East Point, Ga.

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 Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Time Savers, Inc.

ASSEMBLY REELS

See: Sorting Reels

AUTOGRAPHIC REGISTERS

See: Registers, Autographic

AUTOMATIC CONTROLS

See: Controls and Regulators (specific headings), also see: Timers, Washer

AUTOMATIC COUNTERS

See: Counters, Automatic

AUTOMATIC SCALES

See: Scales

AUTOMATIC TIMERS

See: Washer Timers and Controls

AUTOMATIC VALVES

See: Valves, Automatic

AUTOMATIC WASHERS

See: Washers, Automatic

AUTOMOBILE GOVERNORS

See: Governors, Automobile

BADGES, DRIVERS'

Conrad Embroidery Co.
 Parisian Novelty Co.
 Penn Novelty Co.
 Some's Terminal Uniforms
 Stafford Mfg. Co., Inc.

BADGES, EMPLOYEES'

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 Parisian Novelty Co.
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 Stafford Mfg. Co., Inc.

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 Mexico Refractories Co.
 Ramtite Co., Div. of S. Obermayer Co.

BAG AND NET HOLDERS

See: Holders, Bag and Net

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Huebach Div., American Laundry Machinery Co.
 Medalie Mfg. Co.
National Marking Machine Co.
Newhouse Co.
Para-Lux Products Co.
 Patek & Co.
 Perfection Products Co. & Identification, Inc.
 Specialty Devices Co.

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BAGGING COSTS
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West Side Corp.
 White Machine Co.

BAGS, CLOTH

American Associated Cos.
 Baltimore Specialties Co.

Bemis Bro. Bag Co., Inc.
 Benwall Mfg. Co.
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 Cade Paper & Bag Corp.
 Canvas Specialty Co.
 Carson Textile Co., Inc.
 Colorado Tent & Awning Co.
 Daniels, C. R., Inc.
 Davis Mills, Inc.
 Gustin-Kramer Co.
 Lanning Bag & Specialties Co.
Lewis National Corp.
 Manitowoc Cotton Goods Mfg. Co.
 Phoenix Products Co.
 Pittsburgh Waterproof Co.
 Robins, G. S., & Co.
 Smith, Gilman B., Co., Inc.
Stadham Co., Inc.
 Standard Garment Co.
 State Sanitary Supply Co.
 Tingle, Brown & Co.
 Troy Sunshade Co.
 Wagner Awning & Mfg. Co.
 Zuckerberg Co.

BAGS, DIAPER

Benwall Mfg. Co., Inc.
 Bonn, F. H., Co.
 Carson Textile Co., Inc.
 Daniels, C. R., Inc.
 Davis Mills, Inc.
 Equitable Paper Bag Co., Inc.
 Gustin-Kramer Co.
Lewis National Corp.
 Majestic Paper & Twine Co., Inc. (Laundry & Drycleaning Supply Div.)
 Pak-Rite Flexible Packaging Co.
 Pittsburgh Waterproof Co.
 Sani-Top Co.
 Southern Mills, Inc.
Stadham Co., Inc.
 Tingle, Brown & Co.
 Troy Sunshade Co.
 Wagner Awning & Mfg. Co.
 Zuckerberg Co.

BAGS, DRESS-SHIRT

Bond Street Bag & Paper Corp.
 Cade Paper & Bag Corp.
 Clear-View Packaging Co.
 Equitable Paper Bag Co., Inc.
 Everett Sales & Equipment Corp.
 Kennedy Car Liner & Bag Co., Inc.
 Lee Converters, Inc.
 Majestic Paper & Twine Co., Inc. (Laundry & Drycleaning Supply Div.)
 Mehl Mfg. Co.
 Moser Bag & Paper Co.
 Pak-Rite Flexible Packaging Co.
 Patek & Co.
Para-Lux Products Co.
 Phoenix Products Co.
 Rosenthal Paper Co.
 Schorsch & Co., Inc.
 Spear Box Co., Inc.
 Tele-Vue Packaging Products, Inc.
Time Savers, Inc.
 Wagner Awning & Mfg. Co.
 Wescott Products Corp.
 West Side Corp.
 Whitman Supply Co.
 Zuckerberg Co.

BAGS, DRYCLEANERS'

Akro Paper Co.
 American Coat Hanger Mfg. Co.
 Atlanta Paper Co.
 Bond Street Bag & Paper Corp.
 Bonn, F. H., Co.
 Cade Paper & Bag Corp.
 Diem & Wing Paper Co.
 General Cleaners Products Co.
International Paper Co.
 Katz Bag Co.
 Kennedy Car Liner & Bag Co., Inc.
Kordite Corp.
 Lee Converters, Inc.
Lincoln Bag Co., Inc.
 Majestic Paper & Twine Co., Inc. (Laundry & Drycleaning Supply Div.)
 Mehl Mfg. Co.
 Moser Bag & Paper Co.
 Mutual Paper Box Co., Inc.
 Pak-Rite Flexible Packaging Co.
 Patek & Co.
 Phoenix Products Co.
Rassenfoss Bag Co.
 Rosenthal Paper Co.
 Schorsch & Co., Inc.

Spear Box Co., Inc.
Stadham Co., Inc.
 Tele-Vue Packaging Products, Inc.
 Tingle, Brown & Co.
 U. S. Tissue Converting Co.
 West Side Corp.

BAGS, FEATHER

Manitowoc Cotton Goods Mfg. Co.

BAGS, FILTER

See: Filter Bags

BAGS, HAT

See: Hatters' Supplies

BAGS, LAUNDRY, PAPER

Andrew Paper Box & Bag Co.
 Atlanta Paper Co.
 Bond Street Bag & Paper Corp.
 Cade Paper & Bag Corp.
 Century Paper Products
 Clorpay Corp.
 Davis Mills, Inc.
 Diem & Wing Paper Co.
 Equitable Paper Bag Co., Inc.
International Paper Co.
 Kennedy Car Liner & Bag Co., Inc.
Lincoln Bag Co., Inc.
 Majestic Paper & Twine Co., Inc. (Laundry & Drycleaning Supply Div.)
 Mehl Mfg. Co.
 Moser Bag & Paper Co.
 Package Masters, Inc.
 Patek & Co.
 Phoenix Products Co.
 Rosenthal Paper Co.
 Schor Paper Co.
 Schorsch & Co., Inc.
 Spear Box Co., Inc.
Stadham Co., Inc.
 Tele-Vue Packaging Products, Inc.
 West Side Corp.
 Wormstead, Smith & Loomis, Inc.

BAGS, NECKTIE

Bond Street Bag & Paper Corp.
 Diem & Wing Paper Co.
 Equitable Paper Bag Co., Inc.
 Gustin-Kramer Co.
 Majestic Paper & Twine Co., Inc. (Laundry & Drycleaning Supply Div.)
 Mehl Mfg. Co.
 Moser Bag & Paper Co.
 Pak-Rite Flexible Packaging Co.
Para-Lux Products Co.
 Patek & Co.
 Phoenix Products Co.
 Rosenthal Paper Co.
 Schorsch & Co., Inc.
 Spear Box Co., Inc.
Time Savers, Inc.
 U. S. Tissue Converting Co.
 West Side Corp.

BAGS, PANTS OR TROUSER

Andrew Paper Box & Bag Corp.
 Bond Street Bag & Paper Corp.
 Cade Paper & Bag Corp.
 Diem & Wing Paper Co.
 Dixie Hanger Co.
 Equitable Paper Bag Co., Inc.
International Paper Co.
 Kennedy Car Liner & Bag Co., Inc.
Lincoln Bag Co., Inc.
 Majestic Paper & Twine Co., Inc. (Laundry & Drycleaning Supply Div.)
 Mehl Mfg. Co.
 Moser Bag & Paper Co.
 Mutual Paper Box Co., Inc.
 Patek & Co.
 Phoenix Products Co.
Rassenfoss Bag Co.
 Schorsch & Co., Inc.
 Spear Box Co., Inc.
 West Side Corp.

BAGS, SHIRT

See: Shirt Bags

BAGS, STORAGE, MOTHPROOF

Atlanta Paper Co.
 Clear-View Packaging Co.
 Clorpay Corp.

(Continued on next page)

BOLD TYPE LISTINGS

Indicates display advertisers. For more information about their products, see the index of advertisers opposite the inside back cover for page numbers.

Bags, Storage, Mothproof (Continued)

Dinn & Wing Paper Co.
International Paper Co.
 Kennedy Car Liner & Bag Co., Inc.
Kordite Corp.
Lincoln Bag Co., Inc.
 Niles Mfg. Co.
 Phoenix Products Co.
Rassenfoss Bag Co.
 Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
 Rosenthal Paper Co.
 Spear Box Co., Inc.
 West Side Corp.

BAGS, SWEATER

Phoenix Products Co.

BAGS, WETWASH

Bond Street Bag & Paper Corp.
 Bonn, F. H., Co.
 Callaway Mills, Inc.
 Carson Textile Co., Inc.
 Daniels, C. R., Inc.
 Davis Mills, Inc.
 Dinn & Wing Paper Co.
 Guerin-Kramer Co.
 Kennedy Car Liner & Bag Co., Inc.
Lewis National Corp.
 Majestic Paper & Twine Co., Inc. (Laundry & Drycleaning Supply Div.)
 Pak-Rite Flexible Packaging Co.
 Rosenthal Paper Co.
 Schorsch & Co., Inc.
 Spear Box Co., Inc.
Stadham Co., Inc.
 Sterling Supply Corp.
 Tingle, Brown & Co.
 Troy Sunshade Co.
 Wagner Awning & Mfg. Co.
 West Side Corp.
 Zuckerberg Co.

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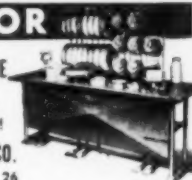
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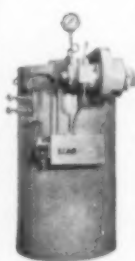
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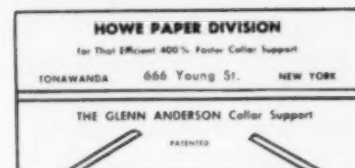
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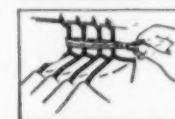
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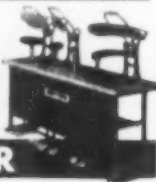
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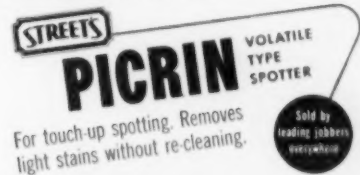
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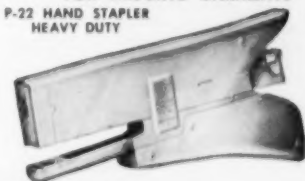
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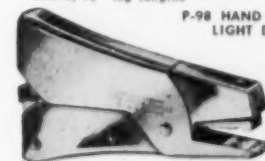
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**TABLES, DRAPERY AND
BLANKET FINISHING**

See: Steam-Air Finishers, Drapery and Blanket

TABLES, FOLDING

See: Folding Tables

**TABLES, FUR CLEANING
(VENTED)**

See: Fur Cleaning Tables, Vented

TABLES, IRONING

See: Ironing Boards and Tables

TABLES, MARKING

See: Marking Tables

TABLES, PRESSING

See: Pressing Boards, Drycleaning

TABLES, SHIRT FOLDING

See: Shirt-Folding Boards

TABLES, SORTING

See: Sorting Tables

TABLES, SPOTTING

See: Spotting Boards and Tables

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See: Starching Tables

TABLES, STEAM

See: Steam Tables

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 Norman Control Co.
 Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
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 Troy Laundry Machinery Div., American Machine & Metals, Inc.

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See: Wetcleaning Tables

TABLES, WOOD

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ARMSTRONG STEAM TRAPS
 See Data, Prices and Size
 Recommendations on
 Page 160



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See page 157

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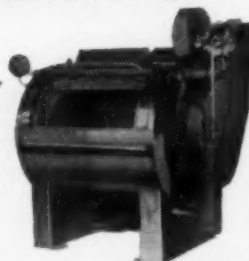
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WIRE BASKETS*See: Baskets, Wire***WIRE HANGERS***See: Hangers, Garment***WIRE STAPLES***See: Staples, Wire***WOOD BASKETS***See: Baskets, Wood***WOOD BOXES***See: Boxes, Wood***WOOD CYLINDERS***See: Cylinders, Wood***WOOD FOLDING BOXES***See: Boxes, Wood***WOOD HAMPERS***See: Hampers***WOOD HAND TRUCKS***See: Trucks, Industrial***WOOD HANGERS***See: Hangers, Garment***WOOD PAINT***See: Paint***WOOD RACKS***See: Racks (under specific headings)***WOOD TABLES***See: Tables, Wood***WOOD TANKS***See: Tanks, Wood***WOOD TRUCKS***See: Trucks, Industrial***WOOD TUBS***See: Tubs, Wood***WOOD VATS***See: Vats, Wood***WOOD WASHERS***See: Washers, Drycleaning, Wood, or Washers, Laundry, Wood***WOOL AND WORSTED UNIFORMS***See: Uniforms, Cotton, Woolen, Worsted, etc.***WOOLEN AND CURTAIN DRIERS***See: Driers, Woolen and Curtain***WOOLEN BLEACH***See: Bleach***WOOLEN SOAPS***See: Soaps, Silks and Woolens***WOVEN BELTING***See: Belting, Woven***WOVEN MARKING LABELS***See: Labels, Woven, Marking***WRAPPERS, PAPER**

Loroco Industries, Inc.
 Majestic Paper & Twine Co., Inc. (Laundry & Drycleaning Supply Div.)
 Rosenthal Paper Co.
 Spear Box Co., Inc.
 Wescott Products Corp.

WRAPPERS, SHIRT

Loroco Industries, Inc.
 Majestic Paper & Twine Co., Inc. (Laundry & Drycleaning Supply Div.)
 Morse Display Cases

Package Masters, Inc.
 Pak-Rite Flexible Packaging Co.
 Phoenix Products Co.
 Quik-Pac Div., H. Wesley Hutchins Co.
 Rosenthal Paper Co.
 Spear Box Co., Inc.
 Wescott Products Corp.
 Wormstead, Smith & Loomis, Inc.

WRAPPERS, TABLECLOTH*Spear Box Co., Inc.***WRAPPING DEVICES, AUTOMATIC**

Coffman Mfg. Corp.
 Quik-Pac Div., H. Wesley Hutchins Co.
 Rosenthal Mfg. Co.
 Tele-Vue Packaging Products, Inc.

WRAPPING PAPER*See: Paper, Wrapping***WRAPPING TUBES, FLAT GOODS***Spear Box Co., Inc.***WRENCHES, PIPE**

Newhouse Co.
 Walworth Co.

WRINGERS, RUG AND CARPET*See: Rug and Carpet Wringers***ZEOLITE**

Belco Industrial Equipment Div.
 Bruner Corp.
 Cochrane Corp.
 Culligan Zeolite Co.
 Elgin-Refinite, Inc., Div. of Elgin Softener Corp.
 Graver Tank & Mfg. Co.
 Hungerford & Terry, Inc.
 Inflico, Inc.
 Kenney Softener & Filter Co.
 National Aluminate Corp.
 National Chemical Sales Co., Laboratory, Inc.
 Oshkosh Filter & Softener Co.
 Permutit Co.
 Research Products Corp.
 Stover Water Softener Co.
 Zero Water Softener Mfg. Co.

ZIPPER REPAIR AND EQUIPMENT SUPPLY*See: Fasteners, Slids, Repair Equipment and Tools***ZIPPERS***See: Fasteners, Slids***BOLD TYPE LISTINGS**

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& DYER**

When you order by trade name the supplies and equipment described in advertisements in this magazine, you know the manufacturers are prepared to stand behind them. This is your assurance of quality and performance.

TRADE NAMES

products used in the drycleaning industry and their manufacturers

A

A-A, washers, extractors, etc., A. A. Laundry Machinery Co.

A-B, marking tags, Boston Clip & Tag Co.

AB, sock tag, Boston Clip & Tag Co.

ABC, collar, cuff and neckband replacements, ABC Collar 'N' Cuff Co.

ABC, payroll system, Todd Co., Inc.

ACLS, concentrated liquid stripper and reducing agents, Carman & Co., Inc.

ATC, controls and regulators, time switches, Automatic Temperature Control Co., Inc.

ABEST, cleaning machine, Abest Equipment Co.

ABSO-SOFT, water softener, Kisco Boiler & Engineering Co.

A.C.B. PRIMER, anti-corrosive base primer, Tropical Paint & Oil Co.

ACCELERATOR, water softeners, Inflico, Inc.

ACCUMETER, automatic centralized lubrication systems, Alenite Div., Stewart Warner Corp.

ACT, drycleaning tumblers, solvent reclaimers, Ace Cabinet Corp.

ACE, rewinding, Ace Weaving Service

ACE, rubber hose, Ace Hose & Rubber Co.

ACE, stapler, staples, Ace Fastener Corp.

ACE, starch cookers, Hammond Laundry-Cleaning Machinery Co.

ACECO, drycleaning equipment, American Cleaners Equipment Co., Div. American Laundry Machinery Co.

ACE OF HEARTS, red indelible ink, Boston Clip & Tag Co.

ACE OF SPADES, black indelible ink, Boston Clip & Tag Co.

ACETATE OF ALUMINA, water repellent, Jacques Wolf & Co.

ACETEN, sour, Hood Chemical Co., Inc., Crescent Div.

ACETI SOUR, sour for drycleaners, Standard Chemical Works Co.

ACETOON, cover cloth, Magla Products

ACID-SUDS, rug cleaning detergent for light colors, Certified Chemical & Equipment Co.

ACKER, return systems, traps, W. M. Acker Organization, Inc.

ACME, dyeing, Acme Dye House, Inc.

ACME, folding box, Rosenthal Paper Co.

ACME, laundry soap and builders, powder, Acme Soap Co.

ACME BRAND, hat chemical and bleach, Acme Hatters Supply Co.

ACME F.O.T., fuel treatment, Acme Industrial Compounds Corp.

ACME SCALE OUT, boiler feed-water treatment, Acme Industrial Compounds Corp.

ACME SOOT STOP, soot remover, Acme Industrial Compounds Corp.

ACORN, round belting, Graton & Knight Co.

ACOUSTOLIGHT, acoustical paint, U. S. Gutta Percha Paint Co.

ACTICAR, odor-, taste-removal filter, Hungerford & Terry, Inc.

ACTIVATOR, laundry washing machines, General Electric Co.

AC TREATMENT, anti-corrosion water treatment, Elgin Softener Corp.

ADAMS, rewinding, Adams Weaving Co.

ADAPT-O-MATIC, finishing machine, J. W. Steele & Co.

ADCO, detergent, wet paste soap, rug shampoo, Adco, Inc.

ADCO, rubber cement, Adhesive Products Corp.

ADCO ATOMIZER, soap dispenser, Adco, Inc.

ADCO FUME, liquid gas fumigant, Adco, Inc.

ADCO SUDS, drycleaning soap, Adco, Inc.

ADD-A-UNIT, curtain stretcher, Rosenthal Mfg. Co.

ADD-A-UNIT, shirt-sorting bins, Time Savers, Inc.

ADDRESSOGRAPH, addressing equipment, Addressograph-Multigraph Corp.

AD-DRI, bleach, Mathieson Chemical Corp.

A. D. FLAME PROOFER, fire repellent, Huntington Laboratories, Inc.

ADJUSTA-FORM, steam-air finisher, Wichita Precision Tool Co., Inc.

ADJUSTIT, adjustable garment hangers, Hopkins Equipment Co.

ADJUST-O-FEEDER, constant rate proportioning pump, Proportioners, Inc.

ADRIAN, drycleaning soap, liquid and powder wetcleaning soap, powder rug cleaning soap, spotting and mothproofing agents, Adrian Research & Chemical Co., Inc.

ADSCO, expansion joints, steam traps, water heaters, American District Steam Co., Inc.

ADS-LIFE, nylon cover cloth, Whitehouse Nylon Products

ADVANCE AIRDRY TUMBLER, laundry and drycleaning tumbler, Driair Process Machinery Co.

ADVANCE LOWBOY, floor and rug maintenance machinery, Advance Floor Machine Co.

ADVANCE SPEEDWAY, floor and rug maintenance machinery and equipment, Advance Floor Machine Co.

ADVERTAG, advertising, instruction tags, Denney Tag Co.

A. E. PERFECT SPREAD, stokers, American Engineering Co.

AERCO, heat exchanger, hot water heater, Aerco Corp.

AERO, double collar support, J. W. Steele & Co.

AERO-DRAULIC, drycleaning press, U. S. Hoffman Machinery Corp.

AERO-MAGNETTE, circuit breakers, Heinemann Electric Co.

AERON, marking paint, Subox, Inc.

AETNA FELT, woven and pressed-hair felt, Aetna Felt Co., Inc.

AID-SOL, solvent purifier, Adrian Research & Chemical Co.

AIRCON, continuous conditioning tumbler, American Laundry Machinery Co.

AIR CHIEF, truck tires, Mohawk Rubber Co.

AIRCRAFT, drying tumbler, American Laundry Machinery Co.

AIR DRY TUMBLER, laundry and drycleaning tumbler, Driair Process Machinery Co.

AIRFOAM, latex cushioning for press pads, Goodyear Tire & Rubber Co.

AIRFORM, coat and jacket shapers, U. S. Hoffman Machinery Corp.

AIR-LOK, cuff-drying hanger, R. D. Bussard & Son

AIR MASTER, dehumidifying unit, Walter Haertel Co.

AIROCOOL, industrial gas burners, National Airoil Burner Co.

AIROVENT, blowers, National Airoil Burner Co.

AIRTEMP, air-conditioning equipment, Chrysler Corp. Airtemp Div.

AIR-TRED, sponge rubber floor matting, American Mat Corp.

AIRTUBE, pneumatic tubes, Lamson Corp.

AIRVENT, ventilating canopies for flatwork ironers, American Laundry Machinery Co.

AIRWAY, cuff cleaner, Kirk's Leather Cleaners

AIRWAY, laundry and hair-removal type drier, American Laundry Machinery Co.

AIRXPEL, traps, Wright-Austin Co., Inc.

AJAX, drycleaning and laundry presses, Western Laundry Press Co.

AKAUSTAN, fire retardant, General Dyestuff Corp.

AKRO, garment bags, Akro Paper Co.

AKTIV, drain opener, Turco Products, Inc.

AKUSAKA, wax, T. G. Cooper & Co., Inc.

ALBANY, lubricating greases, Adam Cook's Sons, Inc.

ALBAPHOR, textile whitener, Carlton Chemical Co., Inc.

ALBA-VIS, general purpose oil, Adam Cook's Sons, Inc.

AL-BEX, stain remover, Spix Products Co.

ALBONE, hydrogen peroxide, E. I. du Pont de Nemours & Co., Inc.

ALBRA, brushes, brooms, Braun Brush Co.

ALEMITE, lubricants and oils, lubricating equipment, Stewart-Warner Corp., Alemite Corp.

ALEMITE VERSATIL, spray equipment, Stewart-Warner Corp., Alemite Corp.

ALERT, boilers, heaters, tanks, Alert Boiler & Mfg. Co.

ALERT, fire extinguishers, American-La France-Foamite Corp.

ALERT, watchmen's clocks, Dextex Watchclock Corp.

ALFCO, all types fire extinguishers, motorized firefighting apparatus, American-La France-Foamite Corp.

ALFCOSPRAY, nozzles, American-La France-Foamite Corp.

ALFITE, all types fire extinguishers, American-La France-Foamite Corp.

ALGONQUIN, soap, Lewis National Corp.

ALIZARINE, aniline dyes, American Aniline Products, Inc.

ALKALATE, laundry detergent, Diamond Alkali Co.

ALKASOL COMBINATION, self-mixed soap detergent, Merson Products Co.

AL-KLOH, liquid drycleaning detergent, Davies-Young Soap Co.

ALKOLUBE, alkali, Washine National Sands, Inc.

ALKON, laundry breaks, George Stearns Chemical & Mfg. Co.

ALKOSOL, alkali soap builder, Carlton Chemical Co., Inc.

ALL COLER, bleach, Warco Laboratories

ALL-DAY, laundry marking tag, Boston Clip & Tag Co.

ALLEGHENY METAL, stainless steel, Allegheny Ludlum Steel Corp.

ALLEN, electric steam generators, steam electric and electric irons, H. F. Cooper & Co.

ALLEN WALES, adding machines, National Cash Register Co.

ALLIED, promotional material, Allied Printing & Stationery Co., Inc.

ALLIGATOR, belt fasteners, belt cutters, Flexible Steel Lacing Co.

ALL-IN-ONE, air-conditioning unit, Chrysler Corp., Airtemp Div.

ALL IN ONE, zipper repair kit, spotting gun, press clamp, sleeve formers, auto rack, Newhouse Co.

ALLOCK, laundry nets and fabrics, Davis Mills Inc.

ALL-PURPOSE, shirt unit, Prosperity Co., Inc.

ALL-PURPOSE, sour, Thompson-Hayward Chemical Co.

ALL-PURPOSE, starch, A. E. Staley Mfg. Co.

ALL-STEEL, scales, Triner Scale & Mfg. Co.

ALLWAY, trouser shaper, Huebsch Div., American Laundry Machinery Co.

ALLWEATHER, fire extinguishers, American-La France-Foamite Corp.

ALL WIRE, garment hangers, Star Service Hanger Div., L. A. Young Spring & Wire Corp.

ALMCON, automatic washing control, American Laundry Machinery Co.

ALPHA, oil pumps, Lunkenheimer Co.

ALRITE, pins, trays and tray cabinets, marking pins, Keyes-Davis Co.

ALROLENE 70, petroleum drycleaning detergent, Alrose Chemical Co.

ALROLENE 65, synthetic drycleaning detergent, Alrose Chemical Co.

ALROMINE, finishing agent, Alrose Chemical Co.

ALROPOL, water repellents, Alrose Chemical Co.

ALROSENE 31, synthetic detergent, Alrose Chemical Co.

ALROSEPT, germicide and fabric softener, Alrose Chemical Co.

ALROSCOL, wet spotter, penetrant, lubricant, Alrose Chemical Co.

ALROWET, wetting agent, Alrose Chemical Co.

ALSEN, oil cups, Lunkenheimer Co.

ALUMEX 50, 60, 70, high alumina firebrick, kiln liners, Mexico Refractories Co.

ALUMIKOTE, aluminum paint, Vita-Var Corp.

ALUMINOX, high-luster aluminum paint, Subox, Inc.

ALUMINUM OILITE, bearings and parts, Chrysler Corp., Amplex Div.

ALVOR, oil control, Lunkenheimer Co.

AM, pocket pH meter, electrometric, Analytical Measurements, Inc.

- AMACEL, acetate dyes, American Aniline Products, Inc.
- AMAFORM, dyeing agent, American Aniline Products, Inc.
- AMALAN, dyestuffs, American Aniline Products, Inc.
- AMALIE, oils and greases, L. Sonneborn Sons, Inc.
- AMANTHRENE, aniline dyes, American Aniline Products, Inc.
- AMAPRO UNION, aniline dyes, American Aniline Products, Inc.
- AMAZON, washing powder, Swift & Co.
- AMAZONE, ozone generators, American Ozone Co.
- AMBASSADOR, continuous towel cabinet, Ambassador Continuous Cabinet Co.
- AMBASSADOR, synthetic solvent drycleaning unit, Detrex Corp.
- AMBER, all-metal sleeve board, sleeve form, sleeve press board, press clamp, steam iron stand, iron stand, iron rest, Amber Mfg. Co.
- AMBER FLAKES, neutral tallow soap, Procter & Gamble Distributing Co.
- AMERICAIN, first aid for cuts, burns and bruises, Americaine, Inc.
- AMERICAN, continuous towel cabinets, paper towel cabinets, Steiner Sales Co.
- AMERICAN, curtain and blanket finishing equipment, American Laundry Machinery Co.
- AMERICAN, drying and deodorizing cabinet, American Laundry Machinery Co.
- AMERICAN, flatwork feeder and spreader, American Laundry Machinery Co.
- AMERICAN, high-speed tumblers, American Laundry Machinery Co.
- AMERICAN, industrial instruments, Manning, Maxwell & Moore, Inc.
- AMERICAN, laundry and drycleaning solid-curb extractors, American Laundry Machinery Co.
- AMERICAN, men's dress and sport shirts, pajamas, American Shirt Co.
- AMERICAN, paint-removing solvent, Adco, Inc.
- AMERICAN, starch cookers, American Laundry Machinery Co.
- AMERICAN, water meters, Buffalo Meter Co.
- AMERICAN, wearing apparel, linen supply and other special-purpose press units, American Laundry Machinery Co.
- AMERICAN, AIRCRAFT, tumblers, American Laundry Machinery Co.
- AMERICAN AUTOMATIC, drycleaning tumblers, temperature controls, American Laundry Machinery Co.
- AMERICAN BEAUTY, electric flatirons, American Electrical Heater Co.
- AMERICAN CASCADE, washers, American Laundry Machinery Co.
- AMERICAN FORMALIC, shirt unit, American Laundry Machinery Co.
- AMERICAN-LA FRANCE, fire extinguishers, motorized fire-fighting apparatus, American-La France-Foamite Corp.
- AMERICAN MODEL "S", super and master ironers, American Laundry Machinery Co.
- AMERICAN MONARCH, washers, American Laundry Machinery Co.
- AMERICAN MUROZA, feather cleaning and sterilizing systems, American Laundry Machinery Co.
- AMERICAN O. T., drycleaning extractor, American Laundry Machinery Co.
- AMERICAN SUPER SPEED, tumblers, American Laundry Machinery Co.
- AMERICAN SYSTEM, shirt conveyor and presses, American Laundry Machinery Co.
- AMERICAN TYPE A and TYPE C, semi-automatic washer controls, American Laundry Machinery Co.
- AMERICAN VISIBLE, hand numbering machine, American Numbering Machine Co.
- AMERICAN ZONE-AIR, leather reconditioning unit, American Laundry Machinery Co.
- AMERICAN ZONE-AIR, laundry and drycleaning tumblers, American Laundry Machinery Co.
- AMES, boiler engines, etc., Ames Iron Works
- AMESTEAM, steam generator, Ames Iron Works
- AMICO, washers and extractors, U. S. Hoffman Machinery Corp.
- AMINOL, drycleaning detergent, Trico Chemical Div., Tri-State Equipment Co.
- AMMOCIDE, laundry sterilizer, mildew preventative, Carlton Chemical Co., Inc.
- AMMUM, wear-resistant metal for traps, valve parts, Strong, Carlisle & Hammond Co.
- AMOREDEX, extractor covers, Patek & Co.
- AMPROZYME, enzymic product, Jacques Wolf & Co.
- AMSCO, high-flash Stoddard solvent, 140°F solvent, special naphtha, American Mineral Spirits Co.
- AMYLIN, laundry starches, National Starch Products, Inc.
- ANCHOR ALKALI, alkali cleanser, Solvay Process Div., Allied Chemical & Dye Corp.
- ANDERSON, paper collar supports, Howe Paper Corp.
- ANDERSON, pipe-line strainers, steam traps, V. D. Anderson Co.
- ANDERSON EASY LOCK, drapery protector, Anderson Specialty Mfg. Co.
- ANDREA, measuring chart, M. Andreas
- ANGELICA, washable service apparel, Angelica Uniform Co.
- ANHYDRO, spotting agent, A. L. Wilson Chemical Co.
- ANOLITE, anhydrous emulsifier, R. R. Street & Co., Inc.
- ANSUL, fire extinguishers, Ansul Chemical Co.
- ANTHONY, oil burners, pipe-line strainers, valve, Anthony Co.
- ANTHONY NEBULYTE, gas, gas-oil, oil burners, tobaces, Anthony Co.
- ANTI-CRUSH, double collar supports, J. W. Steele & Co.
- ANTI-HYDRO, leather belting, waterproof cement, Webb Belting & Supply Co.
- ANTI-ROLL, checks rolling on flatwork ironers, H. Kohnstamm & Co., Inc.
- ANTISEPTIC HUNTOLENE, germ controller, Huntingdon Laboratories
- ANTISEPTIN, active fungicide and germicide, Carman & Co., Inc.
- ANVIL-PUMICE, soaps, toilet, Los Angeles Soap Co.
- APACHE, soap builder, Wyandotte Chemicals Corp.
- APCO 140, flash naphtha, Anderson-Prichard Oil Corp.
- APPLEGATE, indelible ink (silver base), laundry marking pens, linen marking machine (hand, foot and motor power), Applegate Chemical Co.
- APPLICET, powdered aluminum acetate, Arnold-Hoffman & Co., Inc.
- AQUADOL, wet spotter and neutral lubricant, Stamford Chemical Co.
- AQUA-ELECTRIC, water treatment equipment, Aqua Electric Scale Co., Inc.
- AQUANOL, wire and cable, General Electric Co.
- AQUASTEAM, pressing iron system, Automatic (Sussman) Steam Products Corp.
- AQUAWAX, self-emulsifying lubricant wax, Concord Chemical Co.
- ARABOL, starch, Arabol Mfg. Co.
- ARBUTUS, soap, Minnesota Chemical Co.
- ARCTIC, fire extinguishers, American-La France-Foamite Corp.
- ARCTIC CRYSTAL, all-tallow soap and granulated flakes, Colgate-Palmolive Co.
- ARCTIC SYNTAX, synthetic detergents, Colgate-Palmolive Co.
- ARIDEX, renewable water repellent, E. I. du Pont de Nemours & Co., Inc.
- ARISTOCRAT, safety pins, William Prym, Inc.
- ARK-VAK, leather belting, Philadelphia Belting Co.
- ARLAC, alkali, soap builder, Wyandotte Chemicals Corp.
- ARMA, marking machines, daily delivery tags, loop tags, dispenser tags, day tags, safety pins, Pittsburgh Tag Co.
- ARMEN "98", all purpose spotter, Armen Chemicals, Inc.
- ARMITE, anti-seize compound, thread lubricant, joint seal compound, gasket paste, Armit Laboratories
- ARMOFOS, sodium tripolyphosphate, anhydrous, A. R. Mass Chemical Div., Victor Chemical Works
- ARMORTUBE, pneumatic armored tubing, Bailey Motor Co.
- ARMOUR, soaps and synthetics, Armour & Co., Industrial Soap Div.
- ARMOWAX, domestic hard wax, Armour & Co.
- ARMSTRONG, humidifiers, strainers, traps, Armstrong Machine Works
- ARMS, 1270, nylon, wool press cloth, Arms Textile Mfg. Co.
- ARRESTO-MOTH, mothproofing compound, Pennsylvania Salt Mfg. Co.
- ARROW, cuff fasteners, Lee Mfg. Co.
- ARROW, sponge pads, Arrow Mfg. Co.
- ARROW, staplers, staples, staple removers, gum tacks, Arrow Fastener Co., Inc.
- ARROW, wood tanks, tubs, cylinders, outside shells, vats and washers, Arrow Tank Co., Inc.
- ARROW LAUNDRY-PAD, laundry press pad, Arrow Mfg. Co.
- ARROW LINE, hat renovating, manufacturing and blocking machinery, American Hatters Supplies, Inc.
- ARROW LONG ARM, long-reach stapler, Arrow Fastener Co., Inc.
- ARSECO, washing compounds and specialties, alcoholic type anti-freeze, Riverside Chemical Co.
- ASBESTALL, blended nylon and asbestos press cloth, U. S. Rubber Co., Textile Div.
- ASBESTEX, asbestos covers, X. S. Smith, Inc.
- ASBESTON, chest-type flatwork ironer cover, U. S. Rubber Co., Textile Div.
- ASHCROFT, indicating and recording pressure gauges, Manning, Maxwell & Moore, Inc.
- ASHVEYOR, pneumatic conveyor system, Brady Conveyors Corp.
- ASSEMBLY ARC, fittings to facilitate assembly of garments, Time Savers, Inc.
- ASSISTEX, concentrated drycleaning soap, Takamine Laboratory, Inc.
- ATEX, latex cement, Adhesive Products Corp.
- ATLANTIC, non-sour bile, Beach Soap Co.
- ATLAS, extractor, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- ATLAS, truck bodies, Atlas Body Co.
- ATLAS FIRE RETARDANT, flameproof agent, H. Kohnstamm & Co., Inc.
- ATLAS GRAVITY FEEDER WACK, for flatwork ironers, Atlas Steel Products, Inc.
- ATLAS MOISTURE CONTROL, for control of moisture retention in laundry extractors, Atlas Steel Products, Inc.
- ATLAS RUST SOUR, sour, H. Kohnstamm & Co., Inc.
- ATOMIC, drycleaning systems, wet washers, Hammond Laundry-Cleaning Machinery Co.
- ATOMIC, rug, upholstery and fabric cleaning shampoo, Theobald Industries
- ATOMOL, drycleaning filter soap with antiseptic and mothproofing, A. F. Wolke Co.
- ATTASOL, colloidal clay, Attapulgis Clay Co.
- ATTORIS, fur glaze and cleaning fluid, Bernard Sirota Co.
- AUTOGRAPHIC, registers, business forms, Autographic Register Co.
- AUTO-KLEAN, filters, Cuno Engineering Corp.
- AUTO-LEVEL, boiler return system, valves, Spotswood Parker & Co.
- AUTO-LITE, gauges, indicating and recording thermometers, Electric Auto-Lite Co.
- AUTOMATIC, lubricators, Victor Lubricator Sales Co.
- AUTOMATIC, spray guns, OlsonMark Corp.
- AUTOMATIC PALLET LOADER, automatic stacking of cartons, Lamson Corp., Blower Div.
- AUTO-PER, synthetic solvent drycleaning unit, V-Cleaning Machine Co.
- AUTOSET, a type of free-vane air-operated controller, Bristol Co.
- AXIAL-FLOW, exhaust fan, DeBothezat Fans Div., American Machine & Metals, Inc.
- AXTEX, first quality, stiff mud firebrick, Mexico Refractories Co.
- AZTEX, high heat duty firebrick, Mexico Refractories Co.

B

- BB, white grease, low-pressure grease, Keystone Lubricating Co.
- B & G, conveyors, all types, B & G Machinery Co., Inc.
- BCF, solvent cooler, Kewance-Ross Corp.
- B.N.B., collar support, clasp, loop, J. W. Steele & Co.
- B. N. D., concentrated liquid drycleaning detergent, Benda Products, Inc.
- B. & W., boilers, Babcock & Wilcox Co.
- B-X, bloodstain remover, John P. Lynch Co.
- BABSOLV, spotter and lubricant, Slater-Robbins Co., Inc.
- BABSTOD, concentrated drycleaning soap, Slater-Robbins Co., Inc.
- BABTEX, lipstick and paint remover, Slater-Robbins Co., Inc.
- BAB-ZYME, digester, Slater-Robbins Co., Inc.
- BADER, pants stretcher, C. L. Bader Co., Inc.
- BADER SOLVENT PURIFIER, process for cleaning solvent, C. L. Bader Co.
- BADGER, break powder, Minnesota Chemical Co.
- BADGER, liquid soap, Colgate-Palmolive Co.
- BAFFLE-CRETE, first quality castable for half-re construction, Mexico Refractories Co.
- BAG N' NET, holder, Time Savers, Inc.
- BAG-O-MATIC, combined bagger, invoice desk, bag storage rack, G. H. Bishop Co.
- BAG-O-TEER, garment bagger, G. H. Bishop Co.
- BAHNSON, centrifugal humidifier, Bahnsen Co.
- BALANCED DRIVE, washers, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- BALSAM-WOOL, blanket insulation, Wood Conversion Co.
- BANNER, lubricator, Lunkenheimer Co.
- BANNER BRAND, button, buckle, pinning, fluting, pleating, darning machines, Maxant Button & Supply Co.
- BANTAM, autographic registers, Autographic Register Co.
- BANTAM, laundry washer, Troy Laundry Div., American Machine & Metals, Inc.
- BANTAM, net, Southern Mills, Inc.
- BARBER-COLMAN, electric door operators and controls, Barber-Colman Co.
- BARCO, flexible steam, revolving and swing joints, Barco Mfg. Co.
- BARCOL, overhead doors, Barber-Colman Co.
- BARRELED SUNLIGHT, enamels, paints, varnishes, Barreled Sunlight Paint Co.
- BARRETT SPECIFICATION, roofing pitch and roofing felt, Barrett Div., Allied Chemical & Dye Corp.
- BAR RUST, exterior and interior inhibitive paint for steel and pipe, Midland Paint & Varnish Co.
- BASEX, zeolite, Hungerford & Terry, Inc.
- BASKE TRUCK, wire basket truck, C. H. Bishop Co.
- BASSICK, casters, wheels, Bassick Co.
- BEACHRITE, built soap, Beach Soap Co.
- BEACON, bluing, Hood Chemical Co., Inc., Crescent Div.
- BEATS-ALL, covers, nets, padding, Tingle, Brown & Co.
- BEAU-CLEAN, drycleaning soap, Murphy Sales Co.
- BEAVER, pipe and bolt cutting and threading hand tools and machines, Beaver Pipe Tools, Inc.
- BEAVER LUSTER, fur luster, Nycco Products Co.
- BECKMAN, pH meters and other analytical instruments, Beckman Instruments, Inc.
- BEEHIVE, spring padding, Western Laundry Press Co.
- BELCO, water softeners, Belco Industrial Equipment Div.
- BELCOLITE, zeolite, Belco Industrial Equipment Div.

TRADE NAMES

BEL-JO, starch, A. E. Staley Mfg. Co.
BELLMASTER, mechanical pipe joint for cast-iron pipe, Dresser Mfg. Div., Dresser Industries, Inc.
BELMONT, gaskets, packings, Belmont Packing & Rubber Co., Inc.
BELT-ZIP, belt hanger, Para-Lux Products Co.
BENDA, liquid drycleaning soap, paint and grease remover, Benda Products, Inc.
BENDA WATER PILOT, electronic humidity control unit, Benda Products, Inc.
BENDIX-ZYME, digester, Benda Products, Inc.
BENDIX, seamless flexible metal hose, Eclipse Pioneer Div., Bendix Aviation Corp.
BENTEC, synthetic detergent, Wyandotte Chemicals Corp.
BENZOCARDINOLE OXO, detergent, Apex Chemical Co., Inc.
BERGER, steel lockers, shelving, cabinets, bins, benches, desks and tables, Republic Steel Corp.
BERKSOL, drycleaning soap, Stadham Co., Inc.
BERKSTRIP, stripper, Stadham Co., Inc.
BERKSUDS, synthetic detergent, Stadham Co., Inc.
BERLOU, mothproofing agent, Berlou Mfg. Co.
BERSENE, water softener, Bersworth Chemical Co.
BERSONITE, built soaps, Stadham Co., Inc.
BESLER, steam generators, superheaters, Besler Corp.
BESTEEL, straight pins, Fleischer Mills, Inc.
BEST FORMS, tag identification systems, Best Forms Co.
BESTO, synthetic wetcleaning detergent, Nu-Pro Mfg. Co.
BESTOS, asbestos covers, padding, Tingue, Brown & Co.
BESTWAY, drycleaning soap, Dello Products Co.
BEST YET, cellophane ribbon, cotton twines, New York Twine Corp.
BETE, fog and spray nozzles, Bete Fog Nozzle, Inc.
BIFURCATOR, duct fan, DeBothezat Fans Div., American Machine & Metals, Inc.
BIG CHIEF, laundry nets, Southern Mills, Inc.
BIG CHIEF, truck tires, Mohawk Rubber Co.
BIG CHIEF, wood washers, Illinois Laundry Machinery Mfg. Co.
BIG FLO, filters, Butler Mfg. Co.
BIG FOUR, firebrick, Mexico Refractories Co.
BIG 4, stripper, Eaton Chemical & Dyestuff Co.
BIG HORN, bentonite clay, Wyocona Mining Co.
BIG HORN WYOMING, colloidal clay, Wyocona Mining Co.
BIG INCH, pressure-sensitive tape dispensers, Better Packages, Inc.
BIGMOUTH, shake-out tumbler, Purkett Mfg. Co.
BIG SAVAGE, high heat duty firebrick, Mexico Refractories Co.
BIG SAVAGE SUPER, firebrick, Mexico Refractories Co.
BILMYRE DRYSET, press, Lamson Corp.
BILVIS-X, detergent and soap builder, Warco Laboratories, Inc.
BINGO, drainpipe opener, Huntington Laboratories, Inc.
BINKS, spray painting equipment, Binks Mfg. Co.
BIONOLS, germicides, General Dyestuff Corp.
BIOPALS, germicidal detergents, General Dyestuff Corp.
BISHOP, laundry and drycleaning appliances and light production equipment, G. H. Bishop Co.
BISONITE, plastic coating, Washine National Sands, Inc.
BIXLER, conveyors, National Marking Machine Co.
BLACK DIAMOND, roofing pitch and felt, Barrett Div., Allied Chemical & Dye Corp.
BLACK LINE, knitted padding, Minnesota Chemical Co.
BLACK MAGIC, pipe-sealing compound, gasket cement, Bower, Inc.
BLACKMER, rotary hand and power pumps, Blackmer Pump Co.
BLACK OUT, ink remover, J. L. Hardin Co., Inc.
BLANCH-STIK, stain remover, Keystone Aniline & Chemical Co., Inc.
BLANCO, all-fabric stripper, Keystone Aniline & Chemical Co., Inc.
BLANKETMASTER, blanket washing machine, Hopkins Equipment Co.
BLenco, rug cleaning soap, Blenco Co.
BLEND SOL, drycleaning soap, R. R. Street & Co., Inc.
BLOOD-I-CATER, spot remover, W. F. Johnson Products Co.
BLOOD-MUV, stain remover, Package Chemical Co., Inc.
BLOOD-PLUS, spotting aid, Ink-O Products Co.
BLO-R-VAC, water pickup cleaner-vacuum, Ideal Industries, Inc.
BLUD-X, concentrated liquid enzyme, Huntington Laboratories, Inc.
BLUE BELL, blue, H. Kohnstamm & Co., Inc.
BLUE BONNET, blue, H. Kohnstamm & Co., Inc.
BLUE-EDGE, aprons, wetwash bags, Lewis National Corp.
BLUE LABEL, tallow soap, Beach Soap Co.
BLUE LINE, collar supports, hangers, shirt bands, necktie hangers, Loroco Industries, Inc.
BLUE RIBBON, laundry nets, Southern Mills, Inc.
BLUE RIBBON, polishes, waxes, International Metal Polish Co.

BLUE RIDGE, leather belting, waterproof leather belting, Charlotte Leather Belting Co.
BLUE STAR, feed ribbons, New York Belting & Packing Co.
BLUE STREAK, nylon nets, Whitehouse Nylon Products
BLUE STRIPE, cover cloth, padding, William E. Hopper & Sons
BLUFIXE, sour, H. Kohnstamm & Co., Inc.
BLUFIXE EXTRA-SOLUBLE, sour, H. Kohnstamm & Co., Inc.
BLUREX, sour, Hood Chemical Co., Inc., Crescent Div.
BLU-TINT, sour and blue combination, Johnson Chemical Industries, Inc.
BLUTONE, liquid blue, E. F. Drew & Co., Inc.
BOCK, drycleaning, laundry extractors, Bock Laundry Machine Co.
BOCONIZE, mothproofing compound, Bocon Chemical Co.
BOGUE, motors, generators, Belco Industrial Equipment Div.
BOILA KLEEN, boiler compound, Patek & Co.
BOILER LAX, boiler cleaning compound, Radiator Specialty Co.
BOILER SOLDER SEAL, metallic powder for boiler repairs, Radiator Specialty Co.
BONASOL, textile dyeing assistants, American Aniline Products, Inc.
BOND, truck casters, Bond Foundry & Machine Co.
BONDERITE, corrosion-resistant paint, Tropical Paint & Oil Co.
BOND SET, silica base bonding mortar, Mexico Refractories Co.
BON-DRI, water repellent, Benda Products, Inc.
BONIS, fur drum, fur sewing machine, Bonis Bros. Fur Machinery Corp.
BON-SPUN, nylon press covering, F. H. Bonn Co.
BON-TEX, nylon press covering, F. H. Bonn Co.
BON-TWIL, nylon press covering, F. H. Bonn Co.
BOOSTER, shirt unit, Unipress Co., Inc.
BORASUDS, textile scouring, Essential Chemicals Co.
BORGANA, boiler water treatment, Strong, Carlisle & Hammond Co.
BORI-BLUE, sour, Keever Starch Co.
BOROCHLOR, liquid bleach, H. Kohnstamm & Co., Inc.
BOSTAGS, marking tags, Boston Clip & Tag Co.
BOSTITCH, cuff tackers, stapling machine, staples, Bostitch, Inc.
BOW, collar support, Package Masters, Inc.
BOWSER, stills, filters, Bowser, Inc.
BRANFORD, oil burners, Malleable Iron Fittings Co.
BREADY, heat reclaimers, heat exchangers, storage and water heaters, Bready Engineering Corp.
BREAK-AID, solvent pine oil, Thompson-Hayward Chemical Co.
BREAK-O, break powder, Swift & Co.
BREAK-PHOS, soap regenerator, Thompson-Hayward Chemical Co.
BREASYN, break detergent, E. F. Drew & Co., Inc.
BRECH LOCK, cast-steel gate valves, Lunkenheimer Co.
BRESSLER, controls, Bressler Engineering Service
BREX, break compound, Procter & Gamble Distributing Co.
BRIDGEPORT, copper water tubing, Bridgeport Brass Co.
BRIGHTGLO, wetcleaning detergent, Merson Products Co.
BRILLIANTONE, sour, G. S. Robins & Co.
BRILLO, grease pads, Brillo Mfg. Co., Inc.
BRINE-O-LATOR, water-softening equipment, Carey Salt Co.
BRISTO, multiple spline socket set screws, hollow head cap screws Bristol Co.
BRISTOL, starch, H. Kohnstamm & Co., Inc.
BRISTOL'S, instruments, Bristol Co.
BRITE, paste drycleaning soap, Keystone Aniline & Chemical Co., Inc.
BRITTEWHITE, laundry blue, Washine National Sands, Inc.
BRI-TEX, drycleaning soap, Diamond Chemical Co., Inc.
BRITEX, soaps, powdered soap, Van Chemical Co.
BRI-TONE, drycleaning concentrate, Spix Products Co.
BRIZENE, drycleaning soaps, Patek & Co.
BROS, boilers, heaters, stokers, tanks, Wm. Bros. Boiler & Mfg. Co.
BROWNELL, boilers, heat exchangers, stokers, Brownell Co.
BROX, dry-cut cardboards, Alfred J. Brooks
BROXFORMS, shirt boxes, Alfred J. Brooks
BRU-CEX, water conditioning, feeders and chemicals, Bruner Corp.
BRUNNER, air compressors, air conditioners, refrigeration condensers, Brunner Mfg. Co.
BRUSH-AWAY, hand-brushing drycleaning soap, Rayochem Products Co.
BRUSHENE, hand-brushing soap, Keystone Aniline & Chemical Co., Inc.
BRUSH-KLEEN, brushing soap, Adco, Inc.
BRUSH-O-LEEN, liquid drycleaning soap, Caled Products Co., Inc.
BRYAN, boilers, Bryan Steam Corp.
BRYAN "COMMANDAIRE" TWINS, matched heating and air conditioning units, Bryant Heater Div., Affiliated Gas Equipment, Inc.
BRYANT CRYSTALGLAS, glass-lined water heater, Bryant Heater Div., Affiliated Gas Equipment, Inc.

BSC BRAND, covers, pads, flannels, cloth bags, Baltimore Specialties Co.
BUBBLE RUB CONCENTRATE, upholstery shampooing soap, Keystone Chemical Co.
BUCKEYE, drycleaning washer, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
BUCKEYE, soaps, spotters, stain remover, suede leather dressing, water repellent, paint, oil and grease remover, rug and upholstery shampoo, Davies-Young Soap Co.
BUCKEYE CLEAN-CHARGE, drycleaning detergent, Davies-Young Soap Co.
BUCKEYE KIOR-LENE, spotter, Davies-Young Soap Co.
BUCKEYE LIQUA-BREAK, break and stain remover, Davies-Young Soap Co.
BUCKEYE WET SPOTTER, all-around wet spotter, Davies-Young Soap Co.
BUCKEYE ZYMATIC, digestive spotter, Davies-Young Soap Co.
BUDA, industrial trucks, Buda Co.
BUFF, alkali compound, special detergents, E. F. Drew & Co., Inc.
BUFFALO, extractor, filter, still, Gross Machinery Co., Inc.
BULLDOG, nylon laundry nets, metal press pads, X. S. Smith, Inc.
BUMINOL, albuminous stains and blood remover, Spix Products Co.
BUNG, special brick for malleable furnaces, dry press, Mexico Refractories Co.
BUNN, bundle-tying machine, B. H. Bunn Co.
BURBAK, cotton padding, Pittsburgh Waterproof Co.
BURKS, boiler feed, condensation return feeds, turbine, centrifugal pumps and water system, Decatur Pump Co.
BUHOMIN, boiler water treatment, Hagan Corp.
BURROUGHS, accounting, adding, bookkeeping, calculating, cash-registering machines, business machine supplies, Burroughs Adding Machine Co.
BUSSARD, spooled pants pocketing, collapsible extractor cover, R. D. Bussard & Son
BUS-TRUCK CHIEF, truck tires, Mohawk Rubber Co.
BUTLER, boiler water treatment, mechanical de-aerator, Butler Engineering Co.
BUTLER, complete drycleaning plant equipment, Butler Mfg. Co.
BUTLER STILL, solvent distillation unit, Butler Mfg. Co.
BUTONOLE, hub perforating dye tag, Boston Clip & Tag Co.
BUTTON-NO-BUTTON, loop and clasp, J. W. Steele & Co.
BYLAN, cover cloth, Magla Products

C

C. B., drycleaning detergent, Adco, Inc.
C-30, drycleaning soap, Nu-Pro Mfg. Co.
C-H, electrical equipment, Cutler-Hammer, Inc.
C-I, washers, extractors, Cummings-Landau Laundry Machinery Co., Inc.
CM, fire retardant, E. I. du Pont de Nemours & Co., Inc.
CMC FORMULA, sizing and finishing compound, Caled Products Co., Inc.
CMIL, expansion joints, expansion bellows, flexible metal conduit, Flexonics Corp.
C & S, cleansing powder, Swift & Co.
C/S DETERGENT, charged system detergent, Adrian Research & Chemical Co.
CABINETROL, control panel equipment, General Electric Co.
CABINET-SAN, deodorant, Huntington Laboratories, Inc.
CADET, paper products, Cade Paper & Bag Corp.
CALDWELL, tank, W. E. Caldwell Co., Inc.
CALECO, drycleaning, laundry, starch extractors, wood laundry washer, wood cylinders, California Laundry Equipment Co.
CALED L-S, a liquid soap for drycleaning use, Caled Products Co., Inc.
CALGON, detergents, metaphosphate, rug cleaning and finishing compound, sizings, sodium metaphosphate, solvent, lime soap, water conditioners, chemical water softeners, Calgon, Inc.
CALICO, medium-titer built soap, Procter & Gamble Distributing Co.
CALLANET, knitted nylon nets, Callaway Mills, Inc.
CALROD, flatiron, General Electric Co.
CAL'S CHARGE, drycleaning detergent, Caled Products Co., Inc.
CALSILITE, pipe-covering blocks, Ruberoid Co.
CAL-SIZE, liquid or powder sizing, Caled Products Co., Inc.
CAL-SOAP, drycleaning soaps, Caled Products Co., Inc.
CAL-STRIP, liquid concentrated agent, Caled Products Co., Inc.
CAL-TEX, saponified oil-solvent blend with soap, Caled Products Co., Inc.
CAMBRIDGE, electrical and mechanical precision instruments, Cambridge Instrument Co., Inc.
CAMELFORMS, laundry shells, Campbell Box & Tag Co.

- CAMELTAGS, laundry tags, Campbell Box & Tag Co.
- CAMEO, starch, A. E. Staley Mfg. Co.
- CAMERON, pumps, Ingersoll-Rand Co.
- CAMPBELL MICRONETIC, water and signal alarms, J. A. Campbell Co.
- CANTON, stokers, steam generators, power plant equipment, Canton Stoker Corp.
- CAPITAL, marking tags, U. S. Marking Tag Co.
- CAPITAL, posters, display frames, inserts, Pargament-Fidler, Inc.
- CAPITAL, posters, streamers for window display, Capital Poster Service
- CARBEX, silicon carbide super-refractory brick, McLeod & Henry Co., Inc.
- CARBIDE METHANOL, alcohol, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CARBITOL, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CARBO-DUR, activated carbon, Permutit Co.
- CARBONOT, insulators, General Electric Co.
- CARBON-TET, synthetic cleaning fluid, E. I. du Pont de Nemours & Co., Inc.
- CARBOSE CR, laundry washing compound, Wyandotte Chemicals Corp.
- CARBO SOUR, laundry chemical, Diamond Alkali Co.
- CARBONOXIDE, fumigant, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CARCO, marking-machine ink, type cleaner, ink thinner, Carman & Co., Inc.
- CARCO, press-head cleaner, Carman & Co., Inc.
- CARCO, wire hangers, trouser guards, Carman & Co., Inc.
- CARCODERM, hand lotion for drycleaners, Carman & Co., Inc.
- CARCOFLEX, plasticizing agent for plastic or resin-treated fabrics, Carman & Co., Inc.
- CARCOLENE, general spotter, Carman & Co., Inc.
- CARCO SOURS, neutralizing agents, Carman & Co., Inc.
- CARCOSUDS, rug shampoo, Carman & Co., Inc.
- CARCOVAN, light truck body, Pacific Car & Foundry Co.
- CARDOGRAPH, addressograph machine, Addressograph-Multigraph Corp.
- CAREY, bathroom cabinets, Philip Carey Mfg. Co.
- CAREYDUCT, asbestos cement pipe, Philip Carey Mfg. Co.
- CAREY-SOTE, asbestos cement board, Philip Carey Mfg. Co.
- CAREY'S SALT, salt tablets, dispensers, Carey Salt Co.
- CARLTONITE, synthetic detergent laundry washing compound, Carlton Chemical Co., Inc.
- CARMAN, indelible pen ink, Carman & Co., Inc.
- CARMANETS, nylon nets, Carman & Co., Inc.
- CAR-NA-CRETE, rubber floor enamel, Continental Car-Na-Var Corp.
- CAR-NA-LAC, self-polishing heavy-duty floor wax, Continental Car-Na-Var Corp.
- CAR-NA-VAR, upholstery and carpet cleaning machine, liquid spirit wax requiring buffing, Continental Car-Na-Var Corp.
- CAROVAN, delivery trucks, Carovan Div., Universal Sales, Inc.
- CARRIER, industrial heating, refrigerating systems, Carrier Corp.
- CARVEL, nylon covering, press covers, Carman & Co., Inc.
- CARVER, centrifugal pumps, Carver Pump Co.
- CASCADE, mechanical unloading washer, laundry washers, automatic washing control, American Laundry Machinery Co.
- CASCADE, nets, H. Kohnstamm & Co., Inc.
- CASH'S, woven names, labels, markers, tape, J. & J. Cash, Inc.
- CASH STANDARD, valves, regulators, A. W. Cash Co., Inc.
- CAST-REFRACT, refractory materials, Quigley Co., Inc.
- CATERPILLAR, diesel engine, Caterpillar Tractor Co.
- CAU-FLAN, flannel cotton pads, X. S. Smith, Inc.
- CAUSUL, metal gate valves and cocks, Lunkenheimer Co.
- CEDAR SHIELDS, storage bags, paper, various grades & colors, Rassenfoss Bag Co., Inc.
- CEGLIN, finish for textiles, Sylvania Industrial Corp.
- CELANESE, dyes, American Aniline Products, Inc.
- CELA-SOL, paint remover, National Cleaners Chemical Mfg. Co.
- CELATINT, tints for acetate yarn, American Aniline Products, Inc.
- CELITE, filter aids (diatomaceous silica), Johns-Manville
- CELOSIZ, sizing, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CELOSOLVE, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CELOFORM, spotter, Keystone Aniline & Chemical Co.
- CEMENTKOTE, heavy duty oil base cement paint, Tropical Paint & Oil Co.
- CEN-TRA VAC, centrifugal refrigeration compressor, Trane Co.
- CENTURY, motors, generators, Century Electric Co.
- CENTURY BRAND, sodium perborate, Eaton Chemical & Dyestuff Co.
- CERFAK, detergents, E. F. Houghton & Co.
- CERTI-CIDE, demotholing liquid, Certified Chemical & Equipment Co.
- CERTIFIED, low-titer neutral soap flakes, Armour & Co.
- CERTIFIED SOLID, neutral solid pack crutcher soap, Armour & Co.
- CERTI-FOAM, upholstery cleaner, Certified Chemical & Equipment Co.
- CERTI-LAVE, non rinse rug shampoo, Certified Chemical & Equipment Co.
- CETIC-X, odorless liquid sour, Warco Laboratories
- CHACE, automatic washer valves, Chace Valve Div., American Laundry Machinery Co.
- CHAINVEYOR, light capacity overhead power and manually operated conveyors, U. S. Spring & Bumper Co.
- CHALLENGER, all types fire extinguishers, American-La France-Foamite Corp.
- CHALLENGER, stokers, Link-Belt Co.
- CHAMBERS, laundry and drycleaning extractors, Chambers Extractor Co.
- CHAMP CLEANER, fur cleaner, Nyrcor Products Co.
- CHAMPION, automatic tying machine, cable cord, Thomaston Mills
- CHAMPION, Monel press pad, Resillo Co.
- CHAMPION CASCADE, laundry washer, American Laundry Machinery Co.
- CHANDLER, pleating, darning, button-sewing machines, fluters, thread, Chandler Machine Co.
- CHARGIT, drycleaning detergent with chlorophyll, test kit, Nu-Pro Mfg. Corp.
- CHASE, brass and copper products, Chase Brass & Copper Co.
- CHASER, spot remover, Dello Products Co.
- CHAT, detergent, General Aniline & Film Corp., Special Products Sales Div.
- CHATILLON, scales, John Chatillon & Sons
- CHECKERS' BEST, tag marking system, Waverly Specialty Co.
- CHEK-TAG, drycleaning identification system, Best Forms Co.
- CHEMKLOS, work clothing, Mine Safety Appliances Co.
- CHEM-O-FEEDER, constant rate proportioning pump, Proportioners, Inc.
- CHEMPUMP, centrifugal pump, Chempump Corp.
- CHEVCO, belt cleaner, Samuel Chevin Co., Inc.
- CHEVROLET, motor trucks, Chevrolet Motor Div., General Motors Corp.
- CHEX, laundry mildewproofing agent, Cidex Co.
- CHEXIT, unit system for production control, Carman & Co., Inc.
- CHIC, sizing for wetcleaning, Patek & Co.
- CHICAGO, laundry machinery, Chicago Dryer Co.
- CHICAGO, pearl buttons, Chicago Pearl Button Co.
- CHICO, alkali soap builder, Wyandotte Chemicals Corp.
- CHIEF, truck tires, Mohawk Rubber Co.
- CHIEF COMMERCIAL, truck tires, Mohawk Rubber Co.
- CHIEF 20, handkerchief ironer, Huebsch Div., American Laundry Machinery Co.
- CHIEF 23, handkerchief, napkin ironer, Huebsch Div., American Laundry Machinery Co.
- CHIEFON, miniature bar soap, Armour & Co.
- CHINALINE, quick-drying enamel, Barreled Sunlight Paint Co.
- CHLORASOL, fumigant, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CHLORESCO, bleach (calcium hypochlorite), Cowles Chemical Co.
- CHLOROX, chlorinated solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CHLOR-O-CEL, sweetener, filter powder, Johns-Manville
- CHLOR-O-FEEDER, constant rate proportioning pump, Proportioners, Inc.
- CHLOROWAX 40, liquid chlorinated paraffin, Diamond Alkali Co.
- CHLOROWAX 70, resinous chlorinated paraffin, Diamond Alkali Co.
- CHLOROWHITE, high phosphate laundry soap, New South Mfg. Co., Inc.
- CHOCTAW, soap builder, Wyandotte Chemicals Corp.
- CHROMALOX, electric heating equipment, Edwin L. Wiegand Co.
- CHROME CONCRETE, chrome base refractory concrete, Mexico Refractories Co.
- CHROMIX, refractory material, Quigley Co., Inc.
- CHROMOTEX, detergent for rug cleaning in the plant, Endrius Chemicals, Inc.
- CHRYSLER-AIRTEMP, furnaces, boilers, heaters, stokers, Chrysler Corp., Airtemp Div.
- CIDEX, mildew preventative, deodorant, mothproofing agent, Cidex Corp.
- CIMATAG, printed tags and marking tags, Cincinnati Marking Tag & Supply Co.
- CIMCO, cement applied to inner surface of tank, Ford Tank Maintenance Co.
- CINCH, prespotter, Caled Products Co., Inc.
- CINO, carpet, laundry and drycleaning tags, black marking ink, Fleischer Mills, Inc.
- CISSELL, cuff brusher, boards, driers, irons, spotting boards and guns, W. M. Cissell Mfg. Co., Inc.
- CLAIM-SAVER, F.W.I. bundle separators, F. H. Bonn Co.
- CLAIRANESE, cover cloth, Lewis National Corp.
- CLARCO, unit heaters, Clarage Fan Co.
- CLARK, fluid controls, Clark Mfg. Co.
- CLARK 60, traps, valves, Clark Mfg. Co.
- CLAYBRITE, machine clay coated paperboard, Cornell Paperboard Products Co.
- CLAYTON, steam generators, feed water pump, water heater, Clayton Mfg. Co.
- CLEANCUT, pinkers, Maxant Button & Supply Co.
- CLEANERETTE, automatic drycleaning machine, E. L. Chrisman Co., Div. Fleetwood-Airflow, Inc.
- CLEANSER 600, alkali cleanser, Solvay Process Div., Allied Chemical & Dye Corp.
- CLEANSERTAG, marking tag material, Hollingsworth & Vose Co.
- CLEARO, stripper, Carman & Co., Inc.
- CLEARSIZE, laundry starch, National Starch Products, Inc.
- CLEARTEX, laundry starch, National Starch Products, Inc.
- CLEAR-VIEW, boxes, bags and cellophane products, Clear View Packaging Co.
- CLEAVER-BROOKS, steam generators, boilers, Cleaver-Brooks Co.
- CLENA-FORM NO. 2, cleaner, polisher and lubricator for shirt units and body presses, College Chemical Co.
- CLEVELAND, rug and laundry machinery, Cleveland Rug Cleaning Machinery Co.
- CLEVE-O-CEMENT, under-floor covering, resurfacing material, Midland Paint & Varnish Co.
- CLIMAX, overall marking tags, Risdon Mfg. Co.
- CLINTON, rug sizing, Clinton Foods Inc.
- CLINTON 5L, thick boiling starch, Clinton Foods Inc.
- CLIP-A-TAPE, gummed-tape dispenser, Ideal Stencil Machine Co.
- CLIPPER, belt-lacing equipment, belt cutters and fasteners, Clipper Belt Lacer Co.
- CLIPPER, wire lacing, belt lacers, belt cutters, I. B. Williams & Sons
- CLIX, belt organizer, Time Savers, Inc.
- CLOMAK, balanced detergent, Wyandotte Chemicals Corp.
- CLOPAY, hanger protectors, dress guards, Clopay Corp.
- CLOPAY SANITEX, garment storage bags, Clopay Corp.
- CLOR, bleach, Pennsylvania Salt Mfg. Co.
- CLORAFIN, chlorinated paraffin, Hercules Powder Co.
- CLOROSHEEN, drycleaning detergent, Riverside Mfg. Co.
- COAGULATOR, rapid combination mixing chamber and settling basin, Hungerford & Terry, Inc.
- COATES, electric boiler, Coates Electric Mfg. Co.
- COATRITE, industrial coating, Rathbun Co.
- COAT-SEAL, interior wall coating, Steelcote Mfg. Co.
- CO-AXIAL-FLO, filter, Zephyr Laundry Machinery Co.
- COBECO, leather belting, cement, Cornell Belting Co.
- COCALENE, liquid wetcleaning soap, Wonder Wash Corp.
- COCHECO, flat leather belting, belt cement, I. B. Williams & Sons
- COCHIN SEB, solvent and synthetic wetting agent, E. F. Drew & Co., Inc.
- COCHRANE, steam power plant equipment, Cochran Corp.
- COCOANUT OIL, paste soap, National Cleaners Chemical Mfg. Co.
- COCOGEL, wetcleaning soap, E. F. Drew & Co., Inc.
- COCOZOP, coconut oil, wetcleaning, paste soap, Package Chemical Co., Inc.
- COLCOT, press padding flannel, Southern Mills, Inc.
- COLDSPRAY, built soap for cool-water washing, Beach Soap Co.
- COLDWATER NAPTEX, laundry soap, E. F. Drew & Co., Inc.
- COLD WATER OZONITE, cold-water soap, Procter & Gamble Distributing Co.
- COLD WATER SOL SUDS, soap, Lewis National Corp.
- COLE, leather and suede cleaners and driers, Cole Leather Cleaners of America
- COLGATE FORMULA 10, 20, 25, 33, 40, neutral soap flakes and granulated built soap, Colgate-Palmolive Co.
- COLGATE-KWIKSOLVE, laundry soap, Colgate-Palmolive Co.
- COLLARIGHT, collar ironer, shirt-folding machine, Key-Tag Checking System Co.
- COLLA-RITES, collar supports, M. H. Gronauer Co.
- COLOR BRITE, soap, Lewis National Corp.
- COLORBEX, stripping agent, Stauffer Chemical Co.
- COLORFIXE, sour, H. Kohnstamm & Co., Inc.
- COLORFLEX, leather dyes, Eaton Chemical & Dyestuff Co.
- COLORGO, powdered stripping agent, A. L. Wilson Chemical Co.
- COLORLUME, drycleaning soap, Fry Bros. Co.
- COLORSOUT, powder color stripper, Washine National Sand, Inc.
- COLOR SPARK, break powders, Wyandotte Chemicals Corp.

TRADE NAMES

COLORSUDS, low-temperature soap, H. Kohnstamm & Co., Inc.
COLORTOP, plug fuses, Trico Fuse Mfg. Co.
COLORZOUK, sour, Washine National Sands, Inc.
COLOVOLT, fluorescent lamps, fixtures, General Luminescent Corp.
COLSON, wheels, casters, trucks, Colson Corp.
COLTEX, cold water soap, medium pH, E. F. Drew & Co., Inc.
COLUMBIA, activated carbon, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
COLUMBIA, blindstitch machines, Columbia Sewing Machine Corp.
COLUMBIA, boilers, Columbia Boiler Co.
COLUMBIA, detergents, chemicals, Columbia-Southern Chemical Corp.
COLUMBIA, drycleaning extractors, used and rebuilt machinery, puff irons, valves, Columbia Laundry Machinery Co.
COLUMBIA, drycleaning unit, solvent saver, Columbia Appliance Corp.
COLUMBIA, reweaving, inweaving needles, Columbia Needlework Supply Co., Gearhart Runner Knitter Co.
COLUMBIA BF, puff iron, Columbia Laundry Machinery Co.
COLUMBIA GEM, extractor, Columbia Laundry Machinery Co.
COMBATT-C, corrosion preventative, Adrian Research & Chemical Co.
COMBINATION, cellophane bags for shirts and sweaters, Clear-View Packing Co.
COMBINATION OFFSET, silk finishing press, Excelsior Machinery Co.
COMBINER CLIPS, assembling clips, Lorton Products Co., Inc.
COMBINETS, laundry nets and fabrics, Davis Mills, Inc.
COMBINO, ironer padding nets, Tingle, Brown & Co.
COMBO, combination checking desk, bag storage unit and garment bagger, Rodin Machinery Co., Div. Rodin Bros.
COMBUSTIONEER, automatic coal burner, humidifiers, Steel Products Engineering Co.
COMBY-R, laundry nets, Davis Mills Inc.
COMET, electric hoist, Chisholm-Moore Hoist Corp.
COMET, extractors, Hammond Laundry-Cleaning Machinery Co.
COMET, washer, Henrici Laundry Machinery Co.
COMMANDER, steel framed platform hand trucks, Fairbanks Co.
COMMERCIAL, soap, Rome Soap Mfg. Co.
COMPACT, drycleaning machine, Ayr-Mor Machinery Co.
COMPACT, low-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
COMPAR, safety gloves, aprons, gasket material, Resistolox Corp.
COMPLETE, laundry soaps, Fry Bros. Co.
COMPO, fiber marking tags, Fleischer Mills, Inc.
COMPO, marking tags, U. S. Marking Tag Co.
COMPOSITION 33, 91, soap builders, Turco Products, Inc.
COMPOUND 40, general formula spotter, Keystone Aniline & Chemical Co., Inc.
CONCO, stokers, Conco Engineering Works, Div. H. D. Conkey & Co.
CONDOR, hose, belting, rolls, Raybestos-Manhattan, Inc.
CONDO-VAC, return-line vacuum pumps for heating systems, Chicago Pump Co.
CON-D-TEX, mothproofing agent, Research Laboratories Corp.
CONNERSVILLE-CHIEF, rug and carpet cleaning equipment, Chief Mfg. Co.
CONSOLIDATED, safety and relief valves, Manning, Maxwell & Moore, Inc.
CON-SECU-TAG, identification systems, invoice, combination, marking, and printed tags, Con-Secu-Tag, Inc.
CONSTELLATION, 2 and 3 girl shirt finishing unit, Unispress Co.
CONTINENTAL, steam generators, Boiler Engineering & Supply Co.
CONTINENTAL 18, self-polishing heavy-duty liquid floor wax, Continental Car-Na-Var Corp.
CONTINUOUS FLOW, washer, Bill Glover, Inc.
CONTIN-U-RAIL, speed rail, White Machine Co.
CONVAIR, converts foot press into air-operated press, New York Pressing Machinery Corp.
COOK EXTRACTETTE, pony extractor, Cook Machinery Mfg. Co.
COOK WASHETTE, open-end washers, Cook Machinery Mfg. Co.
COOLAIR, fans, ventilating systems, American Coolair Corp.
COOLIDGE, pad savers, Ink-O Products Co.
COOLIDGE GRID, press pad, John E. Coolidge Co.
COOPER, pressing stands, bucks, tables, iron carriers, H. F. Cooper & Co.
COOPER-BESSEMER, compressors, diesel and gas engines, Cooper-Bessemer Corp.
COORDINATED PROCESS CONTROL, automatic control, Bristol Co.
COPALITE, interior varnish, Barreled Sunlight Paint Co.
COPES, high and low alarms, controls, regulators, governors, valves, Northern Equipment Div., Continental Foundry & Machine Co.
COPR-TUBE, copper tube fittings, Dresser Mfg. Div., Dresser Industries, Inc.

CORONET, 72-pound drycleaning unit, Detrex Corp.
CORRUFLEX, expansion joint, American District Steam Co., Inc.
COTTAGE, steel direct-fired water heater, oil-gas, Kewanee Boiler Corp.
COTTONBLOSSOM, laundry textiles, Southern Mills, Inc.
COUNTERBOY, carton and package taping machine, Better Packages, Inc.
COUNTERFLOW, automatic 10-washer counterflow laundering unit, International Laundry Equipment Co.
COUNTERVEYOR, counting conveyor, Leebaw Mfg. Co.
COV-EEZ, garment hanger shields, Lorton Products Co., Inc.
COVERDUX, ironer covering, Tingle, Brown & Co.
COX OF ENGLAND, manual steam-water mixers, O'Brien Steam Specialty Co., Inc.
CRAMER, timers, R. W. Cramer & Co., Inc.
CRANE, plumbing fixtures, Crane Co.
CRAVENETTE, water repellent, Cravenette Co., U. S. A.
CREAM FINISH, starch lubricant, Lewis National Corp.
CRESCENT, belt fasteners, plates, rivets, rivet extractors, Crescent Belt Fastener Co.
CRESCENT, laundry chemical specialty items, Hood Chemical Co., Inc., Crescent Div.
CRESCENT, try-cocks, Wright-Austin Co.
CRESTEX, sour, Hood Chemical Co., Inc., Crescent Div.
CRISRACKS, clothes racks, E. L. Chrisman Co., Inc., Div. Fleetwood-Airflow
CROSBY, gauges, valves, Crosby Steam Gauge & Valve Co.
CROWN, electric-steam irons, steam generators, electric irons, Crown Mfg. Co.
CROWN, laundry nets, Davis Mills Inc.
CRUCIBLE, stainless steel laundry equipment, Crucible Steel Co. of America
CRUSADER, nets, cover cloth, double-face flannel, cover duck, Egan Cotton Mills
CRYSTALITE, fluorescent lighting, Crystalite Co., Inc.
CRYSTAL VICTOR, laundry starch, Keever Starch Co.
CRYSTAMET, sodium metasilicate, Cowles Chemical Co.
CUB JR., steam trap, Wright-Austin Co.
CUFF BRUSHER, rotary cuff cleaner, Excelsior Machinery Co.
CUFF TACKER, sewing machine, Chandler Machine Co.
CULLIGAN, water softening and conditioning equipment, Culligan Zeolite Co.
CUMMINGS-LANDAU, laundry equipment, Cummings-Landau Laundry Machinery Co., Inc.
CURRY, feed ribbons, J. W. Curry Co.
CURTIS, air conditioners, compressors, condensers, hoist tanks, Curtis Mfg. Co.
CUSTOM, electric steam generators, Custom Engineering Co.
CUSTOM, shoulder finisher and shaper, Hopkins Equipment Co.
CUSTOM-AIR, large building heating and cooling equipment, Frane Co.
CUTLER-HAMMER, electrical equipment, motor control, Cutler-Hammer, Inc.
CYANEGG, sodium cyanide, E. I. du Pont de Nemours & Co., Inc.
CYCLO, heavy prespouter, R. R. Street & Co., Inc.
CYCLONE, exhaust head, Wright-Austin Co.
CYCLONE, hand power hoist, Chisholm-Moore Hoist Corp.
CYCLONE, washer, Henrici Laundry Machinery Co.
CYCLONE CONVEYORS, pneumatic conveyors, Eastern Cyclone Conveyor System, Inc.
CYCLONE COUNTING MACHINES, automatic counters for towels, diapers, etc., Eastern Cyclone Systems, Inc.
CYCLOPS, needle bearing, Roller Bearing Co. of America
CYCLOTHERM STEAM GENERATORS, package type boiler, automatic oil or gas fired, Cyclotherm Div., U. S. Radiator Corp.
CYLON, wetcleaning detergent, Patek & Co.

D

DSKL, concentrated liquid stripper and reducing agent, Carman & Co., Inc.
DA-CO, chemicals, cleaners, Davis-Weil Mfg. Co.
DAHLBERG, speed-rail conveyors, Dahlberg Machinery Co.
DAILY DELIVERY, marking tags, Pittsburgh Tag Co.
DAINTEX, wetting agent, Hercules Powder Co.
DAMASCITE, ferrous-base machine parts, Amples Div., Chrysler Corp.
DAMIT, pipe joint compound, Quigley Co., Inc.
DAMP-TEX, enamel, Steelcote Mfg. Co.
DANA, dyeing process for garments, leather and rugs, Commercial Dye Works

DANDUX, canvas baskets, hampers, bags, trucks, C. R. Daniels, Inc.
DAPEX, mothproofing compound, Davison Chemical Co.
DARCO, activated carbon, Darco Dept. (Atlas Powder Co.)
DARNELL, wheels, casters, Darnell Corp.
DATERETTE, dating machine, American Numbering Machine Co.
DAVIS, controls, regulators, valves, Davis Regulator Co.
DAVIS, first-aid and emergency equipment, Davis Emergency Equipment Co., Inc.
DAVIS, press plates, flexible metal hose, Davis Specialties, Inc.
DAVIS, overall tags, Keyes-Davis Co.
DAVIS, shirt unit, Prosperity Co., Inc.
DAVIS NETS, laundry nets, Davis Mills Inc.
DAVIS OVERALL TAG, brass permanent marker, Keyes-Davis Co.
DAVIS TAG, permanent overall marker, Keyes-Davis Co.
DAVIS Z, laundry net, Davis Mills Inc.
DAVOTEX, leather cleaning and redyeing, C. O. D. Cleaning & Dyeing Co.
DAXCO, flatwork ironer cover cloth, Whitehouse Nylon Products
DAY-SOL, chlorinated solvent drycleaning soap, Davies-Young Soap Co.
DC-15, size for synthetics, for drycleaners, Keever Starch Co.
DC FILTROL, adsorbent filter powder, Filtrol Corp.
DEAN HILL, centrifugal industrial power pumps, steam turbines, Dean Hill Pump Co.
DECAL, water softener, Washine National Sands, Inc.
DECALCOMANIA, truck lettering, pictorials, nameplates, window signs and valances, Meyer-cord Co.
DEFENDER, regulators, recording instruments, Defender Instrument & Regulator Co.
DEFENDER, steel pins, safety pins, hanger assembly clips, Oakville Div., Scoville Mfg. Co.
DELOC, laundry detergent, Cowles Chemical Co.
DEHYDRATINE 2A, water repellent, A. C. Horn Co., Inc.
DELIBLE, dissolves indelibles, Warco Laboratories
DE-LIMER, lime solvent, E. F. Drew & Co., Inc.
DELIVER-ALL, delivery truck, Marmon-Herrington Co., Inc.
DELLOSOPE, drycleaning soap, Dello Products Co.
DELUXE, sizing, Huron Milling Co.
DE LUXE, uniforms, Shane Uniform Co., Inc.
DELUXE MIRZA, automatic rug cleaning machine, American Laundry Machinery Co.
DE LUXE STRING, cord, Milwaukee Printed String Co.
DEMING, pumps, Deming Co.
DEMOTROL, mothproofing solution, Signal Chemical Mfg. Co.
DENOMINATOR, tabulating machines, Denominator Company, Inc.
DEODOR, deodorant, Patek & Co.
DESOIL, break powder, Cowles Chemical Co.
DESTAINER, penetrating soap, A. L. Wilson Chemical Co.
D'ESTE, automatic regulating valves, strainers, etc., D'Este Div., Kaye & MacDonald, Inc.
DETECTO, scales, Detecto Scales, Inc.
DETERSIN, detergent for use with chlorinated solvents, Riverside Mfg. Co.
DETEX, watchmen's clocks, Detex Watchclock Corp.
DETREX, drycleaning equipment, solvent still, Detrex Corp.
DETROIT, belt lacers, belt cutters, Detroit Belt Lacer Co.
DETROIT, valves, W. M. Chase Co.
DEVERE SPEEDUX DIPMASTER, water-repellent dip tank, Devere Co.
DEVILBISS, compressors, spray guns, hose, Devilbiss Co.
DEWEY-SHEPARD, gas and oil fired boilers and water heaters, basepanel radiation, winter-summer air conditioner, Dewey-Shepard Boiler Co.
D-FLOX, laundry detergent, Essential Chemicals Co.
DIAL, miniature bar soap, Armour & Co.
DIAL-O-TIME, laundry formula timer, Norman Control Co.
DIAMO, stripper, stain remover, Lewis National Corp.
DIAMOND, ball revolving and swing joints, Diamond Metal Products Co.
DIAMOND, chains, couplings, Diamond Chain Co., Inc.
DIAMOND, knitted nylon nets, Whitehouse Nylon Products
DIAMOND, laundry chemicals, Diamond Alkali Co.
DIAMOND, water-treatment compounds, Oshkosh Filter & Softener Co.
DIAMOND, wire garment hanger, Diamond Wire Hanger Co.
DIAMOND BLUE, laundry bluing, Diamond Alkali Co.
DIAMOND DRYCLEANER, chlorinated cleaning solvent, Diamond Alkali Co.
DIAMOND O & W COMPOUND, detergent, Diamond Alkali Co.
DIAMOND T, motor trucks, Diamond T Motor Car Co.

- DIAMOND "W", soaps, laundry, Los Angeles Soap Co.
- DIASAN, diaper sanitizer, H. Kohnstamm & Co., Inc.
- DIAZOCCEL, for dyeing Celanese and acetate silks, American Aniline Products, Inc.
- DIAZYME, enzymic digester, Jacques Wolf & Co.
- DICALITE, anti-static filter powder, Dicalite Div., Great Lakes Carbon Corp.
- DICALITE 7, filter powder, Dicalite Div., Great Lakes Carbon Corp.
- DICALITE SPEEDPLUS, straight diatomaceous filter powder, Dicalite Div., Great Lakes Carbon Corp.
- DICALITE SWEETEX, sweetener, filter powder, Dicalite Div., Great Lakes Carbon Corp.
- DIEHL, electric motors, fans, Diehl Manufacturing Co., Div. Singer Mfg. Co.
- DI/EN, digester, John P. Lynch Co.
- DIGESTALL, digestive agents, Package Chemical Co., Inc.
- DIGESTIT, enzymic digester, Riverside Mfg. Co.
- DIGEST-O-MATIC, bath tank, Hopkins Equipment Co.
- DIPRAFT, advertising balloons, Dipcraft Mfg. Co.
- DIP-O-MATIC, water-repellent dip tank, Hopkins Equipment Co.
- DISAPPEARO, spotting compound, Fry Bros. Co.
- DISCOVERY, handkerchief bluffer, Huebsch Div., American Laundry Machinery Co.
- DISOLVENT, diluent for leather dyes, Nu-Pro Mfg. Co.
- DISPERSO, silk and wool dyeing soap, Spix Products Co.
- DIS-FER-SOL, break powder, Thompson-Hayward Chemical Co.
- DISPLAY-IT, shirt display cases, Time Savers, Inc.
- DISTILLENE, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
- DIVCO, delivery vehicles, Divco Corp.
- DIX-E-HOLD, hangers, Marion Mfg. Co.
- DIXIE, aprons, Minnesota Chemical Co.
- DIXIE, laundry nets, Southern Mills, Inc.
- DIXIE, tags, tapes, trouser guards, collar supports, Dixie Hanger Co.
- DIXO, detergents, drycleaning soaps, grease, oil and paint removers, wetcleaning soap, Dixo Co.
- DIXON STEAM KING, Scotch marine boiler, Dixon Boiler Works
- DIXON WATERWALL, Scotch marine boiler, Dixon Boiler Works
- DIZOLV-IT, oil remover, Kliegman Bros., Inc.
- DO-ALL, synthetic detergent-built anionic, Armour & Co.
- DOBBY, mothproofing concentrate, Jay-Dee, Inc., Mfg. Chemists
- DOCTOR BOILER, boiler water treatment compound, Doctor Boiler, Inc.
- DODGE JOB-RATED TRUCKS, motor trucks, Dodge Div., Chrysler Corp.
- DOG TEX, treatment for cat and dog stains, Hild Floor Machine Co.
- DORAN, hat machinery, Hatters Supply House, Inc.
- DOUBLE CHECK, zeolite water softener, Elgin-Refinite, Inc., Div. Elgin Softener Corp.
- DOUBLE DUTY SOUR, sour and blue combination, Diamond Alkali Co.
- DOUBLE-VALVE, blanket brusher, American Laundry Machinery Co.
- DOUBLEWEAR, apron duck, cover cloth, nets, Lewis National Corp.
- DOUGLAS, corn starch, thin boiling starch, Penick & Ford Ltd., Inc.
- DOVER DYPERCAN, deodorized diaper container, Dover Stamping Co.
- DOWCLENE, synthetic cleaning solvent, Dow Chemical Co.
- DOWFUME, fumigant, Dow Chemical Co.
- DOW-FER, synthetic solvent, perchlorethylene, Dow Chemical Co.
- DRAIN-DRI, cellar drainers, Yeomans Bros. Co.
- DRAIN PEP, drain pipe solvent, Radiator Specialty Co.
- DRAINROL, condensation drainage device, Fred H. Schaub Engineering Co., Inc.
- DRAFER-EZE, blanket and drapery steam-air finisher, Drafer-Eze Equipment Co.
- DRES-N'SPORT, dress and sport shirt folding machine, G. H. Bishop Co.
- DRESSER, clamps, couplings, fittings, Dresser Mfg. Div., Dresser Industries, Inc.
- DRESSMASTER, steam-air garment finisher, Hopkins Equipment Co.
- DREST, paste type leather finisher, Caled Products Co., Inc.
- DREW, ironer oil, E. F. Drew & Co., Inc.
- DREW 90 PLUS POWDER, soap plus medium pH alkali builder and water conditioner, E. F. Drew & Co., Inc.
- DREX-KLEEN, carbon tetrachloride solvent, Dextrex Corp.
- DRI-BORD, steam-heated press boards, Kisco Boiler & Engineering Co.
- DRI-BRITE GLOSS, fur luster, Nycco Products Co.
- DRICO, air cleaners, filters, separators, strainers, Drico Industrial Corp.
- DREX, water-soluble water repellent, Keystone Aniline & Chemical Co., Inc.
- DRI-FLO DIPPIT, indelible laundry and drycleaning marking set, Dri-Flo Mfg. Co.
- DRI-FOAM, rug and furniture shampoo, Crossland Mfg. Co., Inc.
- DRI-HAND, dampener and moisture regulator, J. W. Steele & Co.
- DRI-RINSE, drycleaners' sour, Johnson Chemical Industries, Inc.
- DRISEAL, shirt bands, Driseal Co.
- DRI-SHEEN, alkaline detergent, Adco, Inc.
- DRI-SHEEN PROCESS, charged system method of cleaning, Adco, Inc.
- DRISIZE, synthetic resin sizing for use in petroleum solvent, Eaton Chemical & Dyestuff Co.
- DRI-STEAM, air cleaners, filters, separators, strainers, valves, Drico Industrial Corp.
- DRISYN, drycleaning detergent, E. F. Drew & Co., Inc.
- DRISYN SPOTTERS, paint, oil, grease, lipstick, spots removers, E. F. Drew & Co.
- DRI-TEX, drycleaning detergents, Spix Products Co.
- DRITHERM, infra-red heat lamps, North American Electric Lamp Co.
- DRI-TOP, ironing board, G. H. Bishop Co.
- DRI-TRI, anhydrous trisodium, A. R. Maas Chemical Co., Div. Vitor Chemical Works
- DRISUDZ, laundry alkaline soap, Cowles Chemical Co.
- DRO-GO, spotting agent, A. L. Wilson Chemical Co.
- DR. SPOTGESTER, prespotter, Dello Products Co.
- DRUCLOR, powdered hypochlorite bleach, E. F. Drew & Co., Inc.
- DRUM MASTER, fur cleaning drum, Walter Haertel Co.
- DRUMMOND, soaps, oils, detergents, Standard Soap Co. of Camden
- DRUSOAP H, high-titer neutral soap, E. F. Drew & Co., Inc.
- DRUSOAP P, high-titer 98% neutral soap, E. F. Drew & Co., Inc.
- DRUZOL, heavy-duty detergent, E. F. Drew & Co., Inc.
- DRY BRIGHT, liquid wax for floors, Riverside Chemical Co.
- DRY CHEMICAL, fire extinguishers, American-La France-Foamite Corp.
- DRYCLEAN, spot remover, E. I. du Pont de Nemours & Co., Inc.
- DRYCO, spotting unit, finishing equipment and steam condensers, Dryco Corp.
- DRYCOMATIC, steam-electric iron, Dryco Corp.
- DRYCON-CARCO, intensified drycleaning detergent, Carman & Co., Inc.
- DRYERETTE, driers, hot air, gas-fired, Hoyt Mfg. Corp.
- DRYGESTER, dry spotter, Smith Bros. Co.
- DRY MASTER, clothes tumbler, National Dryer Mfg. Co.
- DRYMASTER, drying cabinets, Hopkins Equipment Co.
- DRY-O-MATIC, signal and alarm control for tumblers, Rosenthal Mfg. Co.
- DRY-O-WET, spot remover, Slater-Robbins Co., Inc.
- DRYSET, vacuum systems, Lamson Corp., Blower Div.
- DUAL, steam traps, American District Steam Co., Inc.
- DUALCRAFT, press pads, Padcraft Corp.
- DUAL-DUTY TAG-O-ELECTRIC, tag-marking and attaching machine, Textile Marking Machine Co., Inc.
- DUBLECOTE MULTI-SHINGLES, asphalt roofing shingles, Barrett Div., Allied Chemical & Dye Corp.
- DUBLIFE, replacements for collars, cuffs, neckbands and trouser pockets, Dublife Collar Co.
- DUCO, finishes, E. I. du Pont de Nemours & Co., Inc.
- DUFFEL, laundry nets, Southern Mills, Inc.
- DUKE, trouser guards, suit, dress and drape hangers, Memphis Hanger Co. and Pittsburgh Hanger Co.
- DULUX, finishes, E. I. du Pont de Nemours & Co., Inc.
- DUNAWAY, spot removers, digesters, H. D. Dunaway & Co.
- DUO, ironer, Zephyr Laundry Machinery Co.
- DUODEX, carpet antiseptic, Carman & Co., Inc.
- DUO-TEX CONC, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
- DUPLEX, collar supports, Time Savers, Inc.
- DUPLEX, vacuum cleaner, General Electric Co.
- DUPLEX-SLEEVE, expansion joint, American District Steam Co., Inc.
- DUPONOL, fatty alcohol sodium sulfate, E. I. du Pont de Nemours & Co., Inc.
- DU-NYL, expander pad covers, F. H. Bonn Co.
- DURABLE, automatic folding electric iron, Waring Products Corp.
- DURABILT, laundry and drycleaning washer, Gardner Machinery Corp.
- DURABLE, fiber boxes and shipping cases, Durable Fibre Sample Case Co.
- DURABLE, wire pressboard for velvet and nap fabric materials, American Pressboard Co.
- DURACAL, covers and padding combinations, Patek & Co.
- DURAFLEX, stokers, Canton Stoker Corp.
- DURO, blow-off valve, Lankenheimer Co.
- DURO, press covers, R. Lally Co.
- DUROIL, fiber sheet packing, Raybestos-Manhattan, Inc.
- DUROTIX, press covers, R. Lally Co.
- DUST-PROOF, sweeping compound for floors, Riverside Chemical Co.
- DUST STOP, air filters, Owens-Corning Fiberglas Corp.
- DUTCH-MILL, diaper and diaper can deodorants, Van Chemical Co.
- DU-TEX, stain remover, Warco Laboratories
- DUTTON, boilers, pumps, Hapman-Dutton Co., Dutton Boiler Div.
- DUX COTE, water repellent, Eaton Chemical & Dyestuff Co.
- DUX-IT, solvent-soluble water repellent, Keystone Aniline & Chemical Co., Inc.
- DWYER, gauges, indicators, meters, F. W. Dwyer Mfg. Co.
- DYCO-SIZE, garment retexturing compound, Davies-Young Soap Co.
- DYDROSITE, stripping agent, Nu-Pro Mfg. Co.
- DYE PADS, pads for "spot dyeing," Caled Products Co., Inc.
- DYNA-MATIC, open-end washer, Hammond Laundry-Cleaning Machinery Co.
- DYNAMIC DUMPER, unloading washer, Miller Laundry Machinery Co.
- DYNASOPE, concentrate, drycleaning filter soap with antiseptic and mothproofing, A. F. Wolke Co.
- DY-100, liquid drycleaning soap, Davies-Young Soap Co.
- DYPERCAN, sanitary diaper cans, Dover Stamping Co.
- DYSCO, wetcleaning silk and wool soap, Davies-Young Soap Co.
- DYSOLVO, soap, Davies-Young Soap Co.
- DY-SULPH, synthetic wetcleaner, Davies-Young Soap Co.
- DYTEX RUSTERASER, rust remover, Dytex Chemical Co.
- DYTIM BLUE, bluing for use in washing machines, North American Dye Corp.
- DYTIM DYE, dye for use in washing machines, North American Dye Corp.
- DYWHITE, whitener for use in washing machines, North American Dye Corp.

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- E-Z, drycleaning soap, Dello Products Co.
- ELECT, electric power fork truck, Lewis Shepard Products, Inc.
- EASTON, woven cotton belting, Victor Balata & Textile Belting Co.
- EASY, vertical and horizontal solvent pumps, exhaust fans, Easy Industries
- EASY-ON, wood strut hanger, Nagel Coat Hanger Co.
- EASY PRESS, manually operated drycleaning press, Goldman Pressing Machine Corp.
- EASY-TO-SEW, replacement collars, Zuckerberg Corp.
- ECCO, blues, ironer oil, spot removers, repellents, prespotters, tints, soaps, Eaton Chemical & Dyestuff Co.
- ECCODUX, water repellent, Eaton Chemical & Dyestuff Co.
- ECCOFORM, spot remover, Eaton Chemical & Dyestuff Co.
- ECCO KOBO, odor neutralizer, Eaton Chemical & Dyestuff Co.
- ECCOSIZE, textile finish, Eaton Chemical & Dyestuff Co.
- ECLIPSE PIONEER, flexible metal hose, Eclipsa Pioneer Div., Bendix Aviation Corp.
- ECO, hand cream, Davis Emergency Equipment Co., Inc.
- ECO, watchmen's clocks, Detex Watchlock Corp.
- ECONO, drycleaning soap, Package Chemical Co., Inc.
- ECONO, sour, Diamond Alkali Co.
- ECONO, synthetic solvent drycleaning unit, Vic Cleaning Machine Co.
- ECONO-CAL, drycleaning detergents, Caled Products Co., Inc.
- ECONOFED, boiler feed pump and condensate return system, Hapman-Dutton Corp., Dutton Boiler Div.
- ECONOMASTER, boiler, Hapman-Dutton Co., Dutton Boiler Div.
- ECONO-MATIC, drycleaning unit, Prosperity Co., Inc.
- ECONOMIC, boilers, Erie City Iron Works
- ECONOMIST, boiler, Hapman-Dutton Co., Dutton Boiler Div.
- ECONOMITE REGISTERS, autographic registers, Autographic Register Co.
- ECONOMIZER, boiler, Hapman-Dutton Co., Dutton Boiler Div.
- ECONO MOISTLESS, paper bands, Economy Tablet & Paper Co.
- ECONOMY, drycleaner's bag, Diem & Wing Paper Co.
- ECONOMY, hanger bar covers, Phoenix Products Co.
- ECONOMY, marking pins, Keyes-Davis Co.
- ECONOMY, tumblers, drycleaning units, U. S. Hoffman Machinery Corp.
- ECONOMY MODEL, PARIS, steam-air garment finisher, Garment Finishing Equipment Corp.

TRADE NAMES

ECONO-PAK, small-order register, Econo-Pak Register Co.
 ECONO-PER, cold synthetic drycleaning unit, Vic Cleaning Machine Co.
 ECONO-SCOOP, steel weighing hand scoop, Blenco Co.
 ECONOTHERM, steam boilers, Hapman-Dutton Co., Dutton Boiler Div.
 ECON-O-VEYOR, laundry conveyors, Shuler Conveyors, Inc.
 EFELD, finishing equipment, Draper-Eze Equipment Co.
 EGAN, ironer and press padding, feed ribbons, Egan Cotton Mills
 EGRY ELITE, register, business system, Egr Register Co.
 1838, marking ink, liquid laundry blue, Eaton Chemical & Dyestuff Co.
 886, strong soap formula, R. R. Street & Co., Inc.
 ELEX, wetcleaning soap, Dello Products Co.
 ELAINE, red oil (oleic acid), Emery Industries, Inc.
 ELANITE, soaps, laundry, Los Angeles Soap Co.
 ELASTIGUM, roof cement, roof coating, Barrett Div., Allied Chemical & Dye Corp.
 ELCCO, garment press, steam puffer, spotting and finishing machine, E. L. Chrisman Co., Div. Fleetwood-Airflow, Inc.
 ELCONITE, standard greensand zeolite, Elgin-Refinite, Inc., Div. Elgin Softener Corp.
 ELDURITE, synthetic zeolite, Elgin-Refinite, Inc., Div. Elgin Softener Corp.
 ELECTRO, water conditioner, Stomac Engineering Co., Inc.
 ELECTROLENE, drycleaning washers, Troy Laundry Machinery Div., American Machine & Metals, Inc.
 ELECTROFLUID, motorized hydraulic drive, Link-Belt Co.
 ELECTRO LIFT HOISTS, hoists, Electro Lift, Inc.
 ELECTROMANUAL, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.
 ELECTROMATIC, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.
 ELECTRO-MEND, mending machines and tabs, Simmons Machine Co.
 ELECTRO NEUTRALIZER, water-conditioning apparatus for steam boilers, Electro Chemical Engineering Co., Inc.
 ELECTRUNITE, stainless steel tubing, Republic Steel Corp.
 ELGIN, water softening and conditioning equipment and chemicals, water filters, Elgin-Refinite, Inc., Div. Elgin Softener Corp.
 ELITE, ironer covercloth, Tingue, Brown & Co.
 ELITE TRU-PAK, autographic register, Egr Register Co.
 ELLIS, laundry machinery, Ellis Drier Co.
 ELMO, stripper, A. L. Wilson Chemical Co.
 ELNA, sewing, mending machine, Mark-O Corp.
 EMERALD, felt, flannel, Pittsburgh Waterproof Co.
 EMERSOL, stearic acid, Emery Industries, Inc.
 EMPIRE, firebrick, A. P. Green Fire Brick Co.
 EMPIRE, steam traps, American District Steam Co., Inc.
 EMULSIVE, wheat starch, Keever Starch Co.
 ENCO, gas-oil burners, baffles for boilers, Fuel Oil Feed Engineer Co.
 ENDOR, steam tumbler, Hammond Laundry-Cleaning Machinery Co.
 ENDURO, cold-spring press pad, Zeidler Mfg. Co.
 ENDURO, laundry detergents, chemicals, Aurora Manufacturing Co.
 ENDURO, stainless steel, Republic Steel Corp.
 ENERGETIC, wetcleaning synthetic detergent, Armour & Co.
 ENGINAIR, compressor, Westinghouse Air Brake Co., Industrial Products Div.
 ENZ-O-SAN, powdered digester, Huntington Laboratories, Inc.
 ENZYMERSE, enzymic digester, George E. Mead Co.
 ERAD-INK, ink remover, A. L. Wilson Chemical Co.
 ERADOL, color stripper, National Cleaners Chemical Mfg. Co.
 ERASINE, ink remover, Lewis National Corp.
 ERIE CITY, boilers, underfeed stokers, Erie City Iron Works
 ERIFON, flame retardant, E. I. du Pont de Nemours & Co., Inc.
 ERMCO, rug conveyor and equipment, American Laundry Machinery Co.
 ERMINE, starch, Washine National Sands, Inc.
 ERUSTICATOR, rust stain remover, Pennsylvania Salt Mfg. Co.
 ERUSTO, spot and stain remover, dry and wetcleaning soaps, laundry sour, Pennsylvania Salt Mfg. Co.
 ERUSTO-CETIC, sour for wetcleaning, Pennsylvania Salt Mfg. Co.
 ERUSTOCIDE, laundry sour, Pennsylvania Salt Mfg. Co.
 ERUSTO DDT EMULSION, insecticide, Pennsylvania Salt Mfg. Co.
 ERUSTO ENERGEX, drycleaning products, Pennsylvania Salt Mfg. Co.
 ERUSTOLIN, laundry sour, Pennsylvania Salt Mfg. Co.
 ERUSTO LIQUID-BLUE, laundry blue, Pennsylvania Salt Mfg. Co.
 ERUSTO-MAX, laundry sour, Pennsylvania Salt Mfg. Co.

ERUSTO-RAY, laundry sour, Pennsylvania Salt Mfg. Co.
 ERUSTO SALTS, laundry sour, Pennsylvania Salt Mfg. Co.
 ERUSTOSOL, laundry sour, Pennsylvania Salt Mfg. Co.
 ESCO, high pH soap builder, Cowles Chemical Co.
 ESCOFOS, soap regenerator, Cowles Chemical Co.
 ESCOLITE, medium pH soap builder, Cowles Chemical Co.
 ESCOLLOID, medium pH soap builder, Cowles Chemical Co.
 ESCOL 77, high pH soap builder, Cowles Chemical Co.
 ESCOMO, liquid blue, Cowles Chemical Co.
 ESCO-SAVON, hot-water soap (east of Rockies only), Cowles Chemical Co.
 ESPECCO, solvent, starches, Superior Products Co.
 ESSO BOND, air-setting, high-temperature cement, Ramtite Co.
 ETERNIT, asbestos-cement sheets for roofs and sidewalls, Ruberoid Co.
 ETHRO, rug and carpet shampoo, North Coast Chemical & Soap Works
 ETERNIUM, pitch base paint, Barrett Div., Allied Chemical & Dye Corp.
 EULANS, mothproofing agents, General Dyestuff Corp.
 EURECO, ventilating system, Eure & Co.
 EUREKA, belt dressing, Standard Oil Co.
 EUREKA, marking pens, Keyes-Davis Co.
 EUREKA, wetcleaning laundry powder, North Coast Chemical & Soap Works
 EVALPAK, valve packing, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
 EVALTHRUST, valve bushings, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
 EVERDUR, copper silicon alloy, American Brass Co., American Metal Hose Branch
 EVERLASTIC, roofing, Barrett Div., Allied Chemical & Dye Corp.
 EVERLASTING, valves, Everlasting Valve Co.
 EVER-LITE, lighting fixtures, Ever-Lite Co.
 EVER MOIST, dampening device, Time Savers, Inc.
 EVER-MOIST, nylon containers, F. H. Bonn Co.
 EVERREADY, hat and garment boxes, Automatic Paper Box Corp.
 EVERWEAR, double-face padding, Tingue, Brown & Co.
 EVRYTITE, steel valves, Strong, Carlisle & Hammond Co.
 EWART, detachable link belt chains, Link-Belt Co.
 EWING PONT, wood pony laundry washer, R. Ewing & Sons, Inc.
 EXACTO, pre-numbered marking tags, hanger racks, loop assembly hooks, clips, belt wheel, rack dividers, Perfection Products Co. & Identification, Inc.
 EXCEL, paint and grease spotter, Murphy Sales Co.
 EXCELAL, starch finish, Eaton Chemical & Dyestuff Co.
 EXCELL-O, cellophane tying ribbon, Freyberg Bros.-Strauss, Inc.
 EXCELSIOR, hatters' and steam spotting, finishing equipment, Excelsior Machinery Co.
 EXHAUSTEAM, steam purifier, Morehead Manufacturing Co.
 EXIDE, storage batteries, Electric Storage Battery Co.
 EXIDUST, industrial vacuum cleaners, Lamson Corp., Blower Div.
 EXPANDO, collar supports, Time Savers, Inc.
 EXPFLOS, pneumatic sewage ejector, Yeomans Bros. Co.
 EXPRESS-LINE, conveyors, B & G Machinery Co., Inc.
 EXSIZE-T, starch-removing desizing agent, Pabst Sales Co.
 EX-SOIL-O, drycleaning soap, Davies-Young Soap Co.
 EXTRACTETTE, extractor, Cook Machinery Co., Inc.
 EXTRACTING WASHER, washing and extraction in one operation, Butler Mfg. Co.
 EXTRA SOLUBLE COLORFIXE, sour, H. Kohnstamm & Co., Inc.
 EXZYME, enzymic spotting agent, Pabst Sales Co.
 E-Z IRON, finishing-board pads, Fullo Corp.
 E-Z OFF, metal cleaner, Boston Clip & Tag Co.
 E-Z SQUEEZE, water spray gun, Dryco Corp.
 E-Z TO SEW, pillow ticks, Zuckerberg Co.
 EZY, drycleaning press, Prosperity Co., Inc.
 EZY-KLEEN, strainers for pumps and pipelines, Blackner Pump Co.

FABRICARE, drycleaning finishing equipment, Dryco Corp.
 FABRICHEAD, puff irons, Excelsior Machinery Co.
 FABRI CLENE, drycleaning detergents, Lincoln Research, Inc.
 FABRICOL, drycleaning soap, R. R. Street & Co., Inc.
 FABRIC-RENEWING, press plates, Davis Specialties, Inc.
 FABRI FIN, fabric conditioner, Lincoln Research, Inc.
 FABRI LUBE, stain sealer, Lincoln Research, Inc.
 FABRI PELS, water repellents, Lincoln Research, Inc.
 FABRI SIZES, dry and wet sizings, Lincoln Research, Inc.
 FABRIT, heat-sealing mending tape, Madison Products Co., Lucas Products Co.
 FABTEX, water repellent, Merson Products Co.
 FAB-TEX, water repellent, Spix Products Co.
 FAIRBANKS, valves, trucks, casters, wheels, Fairbanks Co.
 FAIRBANKS-MORSE, pumps, motors, engines, stokers, Fairbanks Morse & Co.
 FAMILY WORK STARCH, laundry starch, Keever Starch Co.
 FAMOUS 50, hand numbering machine, Roberts Numbering Machine Co.
 FAN-PAC, packaged ventilation, DeBothezat Fans Div., American Machine & Metals, Inc.
 FANTOM-BANTAM, invisible identification system, National Marking Machine Co.
 FANTOM-FAST, invisible identification system, National Marking Machine Co.
 FASEL, prespotter, Package Chemical Co.
 FASTEX, spot remover, Starr Soap & Chemical Co.
 FASTOGENE, textile finishes and assistants, American Aniline Products, Inc.
 FAWR, accessory equipment, Fawr, Inc.
 FEATHER, air compressor valves, Worthington Pump & Machinery Corp.
 FED TEX, industrial wiping towels, Federal Textile Corp.
 FELAN, durable water-repellent finish, E. I. du Pont de Nemours & Co., Inc.
 FEND, protective hand cream, Mine Safety Appliances Co.
 FENT-ONAMEL, labels, Fenton Label Co.
 FERA-FLOW, non-slip paint, American Abrasive Metals Co.
 FEROCATOR SALTS, laundry sour, Pennsylvania Salt Mfg. Co.
 FERRENEWO, angle check and globe valves, Lunkenheimer Co.
 FERRO, sour, Diamond Alkali Co.
 FERROSAND, iron-removal filters, Hungerford & Terry, Inc.
 FERROX, non-slip flooring composition, American Abrasive Metals Co.
 FIBERGLAS, spun glass yarn for fabrics and insulating, Owens-Corning Fiberglass Corp.
 FIBERROLLS, for use with marking machines, Textile Marking Machine Co., Inc.
 FIELD, draft controls, Conco Engineering Works, Div. H. D. Conkey & Co.
 FIELDEN, liquid level control instrument, Fielden Instrument Corp.
 50-FOLD, concentrated drycleaning soap, National Cleaners Chemical Mfg. Co.
 FILPRO, vacuum still, U. S. Hoffman Machinery Co.
 FILTERMASTER, solvent filter, Hopkins Equipment Co.
 FILTER-SOL, liquid drycleaning soap, Davies-Young Soap Co.
 FILTERSTILL, filters, Martin Equipment Co., Div. American Laundry Machinery Co.
 FILTROL DC, adsorbent filter aid, Filtrrol Corp.
 FILTROLENE, synthetic drycleaning soap, Slater-Robbins Co., Inc.
 FILTRON, electronic filter, U. S. Hoffman Machinery Corp.
 FILTROSAN, drycleaning soap, Stoddard solvent, Slater-Robbins Co., Inc.
 FILT-R-OUT, liquid drycleaning soap, Caled Products Co., Inc.
 FINISH 21, dye fixer, Apex Chemical Co., Inc.
 FINNELL, starch reclaimers, Lewis National Corp.
 FIREBOX, coal, oil, gas stokers, high and low pressure, Kewanee Boiler Corp.
 FIRE-CHEX, roofing shingles, Philip Carey Mfg. Co.
 FIRECRETE, refractory cement, Johns-Manville
 FIREITE, asbestos furnace cement, Johns-Manville
 FIAREYE, safeguards, controls, Combustion Control Corp.
 FIREFLY, asbestos p.d.s, Firefly Asbestos Products Co.
 FIRE GUARD, insulation, Philip Carey Mfg. Co.
 FIRE GUN, fire extinguishers, American-La France-Foamite Corp.
 FIT-ALL, sleeve forms, Davis Specialties, Inc.
 FITTOLD, boiler return systems, U. S. Hoffman Machinery Corp.
 5-L, laundry starch, Clinton Foods Inc.
 FLAG-TAGS, special tags, Stry-Lenkoff & Co.
 FLAIR, sport shirt pack, Scientific Packages, Inc.
 FLALON, nylon flannel for press pads, Burgess-Berliner Associates
 FLAME CHEK, flameproofing agent, Chek Products, Inc.
 FLAME PROOF WX, flameproofing agent, Apex Chemical Co., Inc.
 FLAMONEI, Monel press pads, Resillo Co.

F

F.B., loose-leaf holders, Speed Products Co., Inc.
 F.B.C., drycleaning detergent, Fry Bros. Co.
 F & E, underfeed stokers, Flynn & Emrich Co.
 FF, tickings, Freund, Freund & Co.

FLAN-L-LESS, metal press pads, X. S. Smith, Inc.
 FLASH, shirt packages, Scientific Packages, Inc.
 FLASH-O-MATIC, marking machine, marking tags, Flash Fast Marker Co.
 FLETCHER, extractor, Fletcher Works, Inc.
 FLEXCO, belt fasteners, Flexible Steel Lacing Co.
 FLEXFORM, garment shaper-drier, Tri-Pak Machinery Service, Inc.
 FLEXIMATIC, linen folder, Troy Laundry Machinery Div., American Machine & Metals, Inc.
 FLEXITE, rubber buckets, dippers, funnels, B. F. Goodrich Co.
 FLEXOL, starch, Washine National Sands, Inc.
 FLEXOL DOP, plasticizer to soften hardened waterproof innerlinings, Eaton Chemical & Dvestuff Co.
 FLEXON, corrugated expansion joints, Flexonics Corp.
 FLEX V, belt fasteners, Flexible Steel Lacing Co.
 FLINT CHIPS, neutral soaps, Armour & Co., Industrial Soap Div.
 FLOATS OFF, liquid synthetic detergent, J. Holcomb Mfg. Co.
 FLO-KLEAR, soap for charged systems, Pennsylvania Salt Mfg. Co.
 FLOORKOTE, enamel, Tropical Paint & Oil Co.
 FLOORMASTER, trucks, Lewis-Shepard Products, Inc.
 FLOOR-SAN, floor cleaning compound, Huntington Laboratories, Inc.
 FLOOR-VEYOR, permanent installation power belt conveyor, Rapids-Standard Co., Inc.
 FLOW-MASTER, continuous speed rail fittings, Flow-Master Machine Corp.
 FLOWWATER, solvent meter for filters, Fischer & Porter Co.
 FLOW-RINSE, drycleaning extractor - rinser, Fletcher Works, Inc.
 FLUFFED EDGE, padding cotton, Pittsburgh Waterproof Co.
 FLUTEX, fabric conditioner, textile softeners, National Textile Chemical Co.
 FLUORIUM, fluorescent fabric finish, Beach Soap Co.
 FLUTRON, ruffle ironer, Mazant Button & Supply Co.
 FOAMANEL, sponge press pads, Resilio Co.
 FOAM-ASBESTOS, foam rubber laminated drycleaning pad, Gustin-Kramer Co.
 FOAMITE, fire extinguishers, American-La France-Foamite Corp.
 FOAMSUDS, liquid coconut soap, E. F. Drew & Co., Inc.
 FOLD-A-WAY, shirt baskets and trucks, Time Savers, Inc.
 FOLD-KING, shirt-folding device, Time Savers, Inc.
 FOLDMASTER, flatwork folder, American Laundry Machinery Co.
 FOLDOMAT, portable small flatwork folding, stacking, counting machines, Pioneer Development Co.
 FOLDRITE, flatwork folder, American Laundry Machinery Co.
 FOLDRITE, shirt folding and finishing equipment, Time Savers, Inc.
 FORCE-FLO, blast type conveyor with fan, Trane Co.
 FORD, gasoline trucks and engines, Ford Div., Ford Motor Co.
 FORMANIL, aniline dyes, American Aniline Products, Inc.
 FORMATIC, automatic shirt folder, American Laundry Machinery Co.
 FORMATIC, shirt unit and presses, American Laundry Machinery Co.
 FORM-A-TIME CONTROL, washer timer, Van Chemical Co.
 FORMATROL CYCLE TIMER, automatic washer control, Prosperity Co., Inc.
 FORM FIT, garment hangers, Pacific Coat Hanger Mfg. Co.
 FORMFIT, shirt protectors, Sutherland Paper Co.
 FORM-MASTER, payroll system, Todd Co., Inc.
 FORMMASTER, portable forming machine, Walter Haertel Co.
 FORM-RITE, collar shaper, Huebsch Div., American Laundry Machinery Co.
 FORMULA CONTROLS, INC., formula control for washers, Formula Controls, Inc.
 FORMULA E-23, concentrated detergent, Marshall Co.
 FORMULA 1954, 4% clear, no-rinse charge, Marlene Products Corp.
 FORMULA 177, synthetic soap powder, West Side Corp.
 FORMULA S, built, powdered, low-titer soap, Swift & Co.
 FORMULA 60, high-titer laundry soap, New South Mfg. Co., Inc.
 FORMULA 12, drycleaning soap, Package Chemical Co., Inc.
 FORMULA W-51, ink remover, A. L. Wilson Chemical Co.
 FORSE MASTER, presses, laundry and drycleaning equipment, Forse Equipment Corp.
 FOSKLOR, chlorinated sodium phosphate, Westvaco Chemical Div., Food Machinery & Chemical Corp.
 FOSTER-STEPHENS, window posters, photo-truck-posters, sales promotion material, newspaper mats, Foster-Stephens, Inc.
 FOUR-ACES, synthetic wetcleaner in powder form, National Cleaners Chemical Mfg. Co.
 400, liquid drycleaner, Adco, Inc.
 411, powdered synthetic detergent, Armour & Co.

FOUR STAR, wheat paste starch, Keever Starch Co.
 422, built anionic synthetic detergent, Armour & Co.
 FOXBORO, indicating, recording, controlling instruments, Foxboro Co.
 FRACTO-CRETE, castable refractory, Ramtite Co.
 FRANKLIN, rug hoists, Franklin Rug Machinery Co.
 FRANKLIN'S, cement treatment, cleaners, polishes, waxes, wood seal, Franklin Research Co.
 FRATEX, cotton pads, covers and blanket for drycleaning presses, Franklin Textile Mills
 FRE-BIR-PAC, cloth counters, automatic towel and diaper counters, Fre-Bir-Pac, Inc.
 FREE-FLO, drycleaning pressure filter, Gross Machinery Co., Inc.
 FREE-VANE, air-operated controller, Bristol Co.
 FREE-VANE, electric controller, Bristol Co.
 FREMONT, rubber floor tile, mats, matting, Fremont Rubber Co.
 FRESH-AIR MAKER, fans, blowers, Schwitzer-Cummins Co.
 FREUND, tickings, Freund, Freund & Co., Inc.
 FRIGIDAIRE, air conditioners, Frigidaire Div., General Motors Corp.
 FRINSE-IT, fringe cleaner, Certified Chemical & Equipment Co.
 FRONTIER BRAND, specialties, Riverside Chemical Co., Inc.
 FROST-PROOF, pipe covering and blocks, Rubberoid Co.
 FRUGAL, soap, Minnesota Chemical Co.
 FRYBRO, black indelible marking ink, ironer oil, Fry Bros. Co.
 FRYCO, dye dippers, E. B. Fry & Son
 FRY'S SPECIAL, clipper laced aprons, Fry Bros. Co.
 F. S. RUBBER MARKERS, colored identification markers, Skrandel Co.
 FUEL-SAVER, boilers, International Boiler Works Co.
 FUL-FLO, laundry nets and fabrics, Davis Mills Inc.
 FULLMATIC, washers, Troy Laundry Machinery Div., American Machine & Metals, Inc.
 FULTON, laundry nets, Southern Mills, Inc.
 FULTON, small-horsepower steam boilers, Fulton Boiler Works, Inc.
 FUME-FITE, acid resisting enamel, Tropical Paint & Oil Co.
 FUMOL, mothproofing agent, Fumol Corp.
 FUR-E-OIL, re-oiling and softening agent for furs and leathers, Package Chemical Co., Inc.
 FUR-LASTIC, leather softener, Fur-Lastic, Inc.
 FURMASTER, fur cleaning equipment, Walter Haertel Co.
 FURMOST, chart for estimating repairs and re-modeling of furs, Mannie Rothleder
 FURNAS-CRETE, castable refractory, Mexico Refractories Co.
 FUR-RAY, fur cleaner and reconditioner, Jay-Dee, Inc., Mfg. Chemists
 FUR SHEEN, fur cleaner, Walter Haertel Co.
 FURTEX, fur finishing equipment, Furtek, Inc.
 FYR-FEEDER, stokers, American Coal Burner Co.

G

GFD'S, hot air dryers, Hoyt Mfg. Corp.
 GFTT, gas power fork truck, Lewis-Shepard Products, Inc.
 G & G, liquid or powdered stripper, bleacher, G & G Chemical Co.
 GOP, grease, oil and paint remover, Eaton Chemical & Dyestuff Co.
 GABRIEL, boilers, heat exchangers, pressure tanks, Gabriel Boiler & Fabrication Co.
 GALVANUM, for galvanized iron, Vita-Var Corp.
 GARCO, hangers, wire trouser guards, collar supports, Garment Hanger Co.
 GARD, combined flameproofing and mothproofing agent, U. S. Chemical Products Co.
 GARDNER-DENVER, air compressors, pumps, Gardner-Denver Co.
 GAS-HEAT, recirculators, Kisco Boiler & Engineering Co.
 GASWAY, gas-heated flatwork ironers, Gasway Corp.
 GATES, heavy duty industrial V-belts, Gates Rubber Co.
 GAYSCO, valves, Golden-Anderson Valve Specialty Co.
 GEARHART, reweaving, inweaving and hosiery mending needles, Columbia Needlework Supply Co., Gearhart Runner Knitter Co.
 GEARLESS, washers, Zephyr Laundry Machinery Co.
 GEEP, wet and dry spotter, Keystone Aniline & Chemical Co., Inc.
 GELATONE, liquid size and finish, R. R. Street & Co., Inc.
 GEM, grease cups, Lunkenheimer Co.
 GEMZYME, enzymic digester, George E. Mead Co.
 GENERAL, fire trucks, General Detroit Corp.

GENERAL, perchlorethylene drycleaning units, Martin Equipment Co., Div. American Laundry Machinery Co.
 GENERAL ELECTRIC, electrical equipment, General Electric Co.
 GENERAL FORMULA, stain remover, G & G Chemical Co.
 GERMITEK, sour, Hood Chemical Co., Inc. Crescent Div.
 GIANT, built high-titer soap powder, Armour & Co.
 GIANT, hydraulic extractor, Strike's Laundry Machinery, Inc.
 GIANT KING, net pins, Keyes-Davis Co.
 GIBBALTAR, marking and printed tags, Commercial Tag Co.
 GIBBALTAR, nylon flatwork ironer covers, tape cords, asbestos pads and cover, Gibraltar Fabrics, Inc.
 GIBBALTAR TRI-PRONG CLIP, skirt hanger fastener, Commercial Tag Co.
 GIBBALTARIZED, nylon laundry nets, Gibraltar Fabrics, Inc.
 GIFCO, tags, H. M. Gifford Mfg. Co.
 GI-GR-NITE, casters, Clinton Products Co.
 GILBARCO, oil burners, Gilbert & Barker Mfg. Co.
 GILMER, V-belts, flat belting, woven belting, New York Belting & Packing Co.
 GILT EDGE, round leather belting, I. B. Williams & Sons
 GLAMORENE, rug cleaner, rug brush, foam upholstery cleaner, Glamorene, Inc.
 GLAZEN, fur glazing fluid, Package Chemical Co., Inc.
 GLAZOLENE, fur luster, Nycco Products Co.
 GLEEM, liquid wetcleaning soap, Trico Chemical Div., Tri-State Equipment Co.
 GLENN ANDERSON, paper collar supports, Howe Paper Corp.
 GLIDE LINER, pressing machines, laundry power presses, Unipress Co.
 GLIDER, electric irons, J. W. Steele & Co.
 GLIDER, pressing machine, Loyal Textile Machinery Corp.
 GLIM, detergent, General Aniline & Film Corp., Special Products Sales Div.
 GLISSN, cleaning compounds, mothproofing, Gliss'n Products Co., Inc.
 GLOBE, drycleaning marking and strip tags, Globe Ticket Co. of New England
 GLOBE, laundry, drycleaning washers, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
 GLORY, tallow soap chips, Swift & Co.
 GLO-SOAP, drycleaning soap, Starr Soap & Chemical Co., Inc.
 GLOSTEX, canvas products, C. R. Daniels, Inc.
 GLOVER, cleaners' specialties, Bill Glover, Inc.
 GLUV-NU, glove soap, Davies-Young Soap Co.
 GLYD-ON, shirt clip, Time Savers, Inc.
 GMC TRUCKS, motor trucks, GMC Truck & Coach Div., General Motors Corp.
 GO-BACK, conveyors for flatwork presses, Rosenthal Mfg. Co.
 GOLDEN FLAKE, laundry soaps, Fry Bros. Co.
 GOLD-FLO, boilers and condensation return system, Goldman Pressing Machinery Corp.
 GOLD LINE, laundry fabric, Tingle, Brown & Co.
 GOLD MEDAL, hatters' chemicals, machinery, Hatters Supply House, Inc.
 GOLD MEDAL, nets, Southern Mills, Inc.
 GOLDSEAL, colored specialty tapes, Gummed Tape & Devices Co.
 GOLD SEAL, rug shampoo, Huntington Laboratories, Inc.
 GOLD STAR, feed ribbons, New York Belting & Packing Co.
 GOOD FORM, garment hangers, Pacific Coat Hanger Mfg. Co.
 GOODRICH, rubber hose, belting, packing, B. F. Goodrich Co.
 GORTON, air eliminators, Gorton Heating Corp.
 GRAKO, belt dressing, Graton & Knight Co.
 GRAND, hatters' equipment, supplies, Maxant Button & Supply Co.
 GRANOLITH, paint for brick, concrete, stucco, Barreled Sunlight Paint Co.
 GRANTHAM, unloading tumblers, U. S. Hoffman Machinery Corp.
 GRANUWAX, granulated wax, Lewis National Corp.
 GRAVES & MARSHALL, water heaters, heat exchangers, pressure and storage tanks, Graves & Marshall Co.
 GREAVES, silent bakelite gears, milling machines, Greaves Machine Tool Co.
 GREENBACK, apron duck, John T. Stanley Co., Inc.
 GREEN BUBBLES, soap powder, Minnesota Chemical Co.
 GREENCOTE, refractory maintenance coating, A. P. Green Fire Brick Co.
 GREEN GLO, oil soap, Allen B. Wrisley Co.
 GREEN LABEL, builder compound, Solvay Sales Div., Allied Chemical & Dye Corp.
 GREEN OLIVE, soap, Rome Soap Mfg. Co.
 GREENSTRIFE, cover cloth, John T. Stanley Co., Inc.
 GREEN STRIPE, padding, William E. Hooper & Sons
 GREENWOOD, pins, sewing needles, binding tape, Greenwood Textile Co.
 GREENZYME, digestive enzyme, Greenville Chemical Co.

TRADE NAMES

GREIF, hangers, guards, Greif Bros. Cooperage Corp., Wire Garment Hanger Div.
 GRESOL, break powder, Speare Co.
 GREYHOUND, extractor, synthetic washer, wash-wheel, Hercules Laundry Machinery Co., Inc.
 GREYHOUND, washers, U. S. Hoffman Machinery Corp.
 GREY-ROCK, brake lining, clutch facings, brake blocks, Raybestos-Manhattan, Inc.
 GRIMES, air compressors, Grimes Co.
 GRIPNET, nylon net closures, Keyes-Davis Co.
 GRIPPO, slip-resistant trouser guard, Patek & Co.
 GRIPPO GUARD, trouser guards, L. M. Leathers' Sons
 GRIPTEX, liquid rubber, Adhesive Products Corp.
 GRIP-TITE, bagging rod clamp, G. H. Bishop Co.
 GRIP-TITE, marking tags, Liberty Marking Tag Co., Inc.
 GRIP-TITE, rug pole hangers, American Laundry Machinery Co.
 GROSS, drycleaning extractors, filters, tumblers, washers, Gross Machinery Co., Inc.
 GROSSAIR, open-end tumbler, Gross Machinery Co., Inc.
 GROSS-EX, drycleaning washer-extractor, Gross Machinery Co., Inc.
 GROSS-OMATIC, safety petroleum drycleaning unit, Gross Machinery Co., Inc.
 GROSS STAR, grid plates, electric steam irons, ironing boards and tables, L. Behrstock Co.
 GROSS-X, tumbler, Gross Machinery Co., Inc.
 G-SEAL, pipe joint compound, Quigley Co., Inc.
 G-SOL, drycleaning soap, G & G Chemical Co.
 GUARANTEED, built, powdered high-titer laundry soap, Swift & Co.
 GUARDSMAN, watchlock, Detex Watchlock Corp.
 GULF, petroleum and Stoddard solvents, rust preventatives, greases and lubricating oils, Gulf Oil Corp.-Gulf Refining Co.
 GUMCRAFT, gummed, mending and printed tapes, Gummed Tape & Devices Co.
 GUTH FLUORESCENT, fluorescent lighting equipment, Edwin F. Guth Co.
 GUTH GERM-KILLING LIGHTS, bactericidal lighting equipment, Edwin F. Guth Co.

II

H, water soluble grease, Keystone Lubricating Co.
 HCR, high capacity cation exchanger, National Aluminate Corp.
 HD, belt fasteners, Flexible Steel Lacing Co.
 HK, water repellent, H. Kohnstamm & Co., Inc.
 H-O, disinfectant, Huntington Laboratories, Inc.
 HTH, granular bleach, Mathieson Chemical Corp.
 HTH, soda bleach mix, calcium hypochlorite with soda base, Mathieson Chemical Corp.
 HW, liquid soap, Eaton Chemical & Dyestuff Co.
 HAERTEL, fumigation cabinet, garment racks, fur vault door, Walter Haertel Co.
 HAGAN, combustion control for boilers, Hagan Corp.
 HAGAN RING BALANCE, flow meters, Hagan Corp.
 HAIROUND, round belting, Graton & Knight Co.
 HALL, tanks and tubs, Amos H. Hall & Sons
 HAMILTON, casters, dollies, racks, wheels, trucks, Hamilton Caster & Mfg. Co.
 HAMILTON, spring padding, American Laundry Machinery Co.
 HAMMEL-DAHL, valve controls, valves, Hammel-Dahl Co.
 HAMMOND, washers, tumblers, etc., Hammond Laundry-Cleaning Machinery Co.
 HANCOCK, globe, angle and gate valves, Manning, Maxwell & Moore, Inc.
 HANDEE, presses, Forse Equipment Corp.
 HAND-FILM, protective hand cream, National Cleaners Chemical Mfg. Co.
 HANDI, bundle and garment racks, Speare Co.
 HANDIPAK, portable autographic register, Egly Register Co.
 HANDIROL, mending tape, Gummed Tape & Devices Co.
 HANDY, button and buckle covering equipment, Handy Button Machine Co.
 HANDY, flatwork ironer, American Laundry Machinery Co.
 HANDY, gate valves, Lunkenheimer Co.
 HANDY, rubber markers, Zuckerberg Co.
 HANDYPAK, day tags, Tagit Co.
 HANG-A-LOX, wire hanger rack, Time Savers, Inc.
 HANGER-TIES, hanger combiners, H. F. Hanscom & Co.
 HANG-RITE, garment hangers, Waldorf Paper Products Co.
 HARWID, polyethylene, Olin Cellophane Div., Eucato Paper Corp.
 HAUSER-STANDER, wood tanks, tubs, vats, Hauser-Stander Tank Co.
 HAWKEYE, soap flakes, Iowa Soap Co.
 HAYS, veriflow meter, visio-ratio gauge, Hays Corp.
 HEARTH-CRETE, refractory material, Quigley Co., Inc.
 HEART-OAK, leather belting, Graton & Knight Co.

HEAT-O-SEAL, thermium heat-seal labels, Tompkins' Label Service
 HEDD, curtain ruffle iron, Burkstur Specialties Co.
 H. E. FLUELESS, boilers, P. M. Lattner Mfg. Co.
 HELE-SHAW, pumps, American Engineering Co.
 HELMET, steel safety pins, Risdin Mfg. Co.
 HERCULES, extractors, Haring & Stephens Co.
 HERCULES, Stoddard solvent and 140° F dry-cleaning units, washers, Hercules Laundry Machinery Co., Inc.
 HERCULES CMC, sizing agent, Hercules Powder Co.
 HERMAN, delivery truck body, Herman Body Co.
 HERO, fire extinguishers, Bostwick Laboratories
 HEV-E, combination oil and gas burner, Cleaver-Brooks Co.
 HEXAGON, pads, covers, Stadham Co.
 HEXAMO, prespotter, Riverside Mfg. Co.
 HEXITE, wetcleaning soap, Riverside Mfg. Co.
 HEXOL, prespotter, Slater-Robbins Co., Inc.
 HEXOLATE, alkali, soap builder, Lewis National Corp.
 HI-BASEX A, zeolite, Hungerford & Terry, Inc.
 HI-CAP, steam traps, Strong, Carlisle & Hammond Co.
 HICORY, soap, flaked or powdered, Los Angeles Soap Co.
 HIGH FLASH SHELL-SOL, naphtha petroleum solvent, Shell Oil Co., Inc.
 HIGH-SPEED, curtain drier, drying tumbler, American Laundry Machinery Co.
 HI-GRADE, leather belting, cement, dressing, Cornell Belting Co.
 HI-INVERSAND, zeolite, Hungerford & Terry, Inc.
 HILD, rug and carpet shampooing equipment, animal stain remover, Hild Floor Machine Co.
 HILO, built low-titer soap powder, Armour & Co.
 HILO-CHROME, chrome-base bonding mortar, Mexico Refractories Co.
 HILOSET, high-temperature bonding mortar, Mexico Refractories Co.
 HI-LUSTRE, fur glazing fluid, Bernard Sirotta Co.
 HI-SPEED, rail fittings, Time Savers, Inc.
 HI-SPEED, washer, Keystone Laundry Machinery Co.
 HI-SPEED, washers, Zephyr Laundry Machinery Co.
 HI TEST, high-pressure welded boilers, Ke-weenaw Boiler Corp.
 HI-TEST, moth spray, Bernard Sirotta Co.
 HI-V, collar and cuff press, Forse Equipment Corp.
 HI-JET, drycleaning and laundry washer-extractor-dryer units, U. S. Hoffman Machinery Corp.
 HODGES, checking systems, Jack Hodges Specialty Co.
 HOFFCO-VAC, portable vacuum cleaner, U. S. Hoffman Machinery Corp.
 HOFFMAN, drycleaning, laundry machinery, U. S. Hoffman Machinery Corp.
 HOFFMANETTE, silk finishing press, U. S. Hoffman Machinery Corp.
 HOFF-MANIKIN, dress shaper, U. S. Hoffman Machinery Corp.
 HOFFMATIC, automatic pressing machines, U. S. Hoffman Machinery Corp.
 HOLDAPRES, trouser hanger, B & C Engineering Co.
 HOLD-FAST, leather belt dressing, I. B. Williams & Sons
 HOLTITE, collar supports, Wormstead, Smith & Loomis, Inc.
 HOL-TITE, marking tags, Liberty Marking Tag Co., Inc.
 HOLT WHIRLWIND, floor polishers, Holt Mfg. Co.
 HOMO-FLEX, hose, belting, Raybestos-Manhattan, Inc.
 HOODCLOR, bleach, Hood Chemical Co., Inc., Crescent Div.
 HOOF, automobile and engine governors, Hoof Products Co.
 HOOPERWOLD, cotton press padding, nets, William E. Hooper & Sons
 HOOSIER PEARL, corn starch, National Starch Products, Inc.
 HOPE, tapes, belting, Hope Webbing Co.
 HOPKINS, washing machines, tanks, Hopkins Equipment Co.
 HOPKINS ATOMIZER, spotter, Hopkins Equipment Co.
 HOPKINS FILTER, horizontal, bag-type filter, Hopkins Equipment Co.
 HORN CRETE-FIX, floor resurfacer, A. C. Horn Co., Inc.
 HORN DRI-N-TITE, roof coating, A. C. Horn Co., Inc.
 HORN FUMEX, fume resistant coating for walls, ceilings, A. C. Horn Co., Inc.
 HORNGLAZE, floor wax, A. C. Horn Co., Inc.
 HORNOLITH, dustproof for concrete floors, A. C. Horn Co., Inc.
 HORSESHOE, shirt sorting bin, Time-Savers, Inc.
 HORWATH, laundry washers, Horwath Laundry Machine Mfg. Co.
 HOT-SPOT, stick type press cleaner, Dello Products Co.
 HOT PATCH, heat-setting high-temperature cement, Ramtite Co.
 HOWELL, sump pumps, oil burners, Kol-Master Corp.
 HOYT, tumblers, Hoyt Mfg. Corp.

HUB, laundry marking tags, Boston Clip & Tag Co.
 HUBER, overfeed stokers, Flynn & Emrich Co.
 HUBINGER COMPOUND, corn starch, Hubinger Co.
 HUDSON BLEACH, sodium hypochlorite, Kuehne Chemical Co.
 HUEBSCH, tumblers, Huebsch Div., American Laundry Machinery Co.
 HUMIDIGRAPH, direct-reading humidity recorder, Bristol Co.
 HUNGERFORD, filters, Hungerford & Terry, Inc.
 H-V-2, air vacuum system, U. S. Hoffman Machinery Corp.
 HYAL, builders, George Stearns Chemical & Mfg. Co.
 HYDRAMITE, pumps, American Engineering Co.
 HYDRASOL, wetcleaning Celanese soap, Keystone Aniline & Chemical Co., Inc.
 HYDRAULIC HANDLIFT and FOOTLIFT, trucks, Lewis-Shepard Products, Inc.
 HYDRAXTOR, extractor, Zephyr Laundry Machinery Co.
 HYDRAZENE, rust remover, National Cleaners Chemical Mfg. Co.
 HYDREPEL, naphtha-soluble waterproofing, National Cleaners Chemical Mfg. Co.
 HYDROBREAK, laundry chemical, Diamond Alkali Co.
 HYDRO CLARO, bleach, Lewis National Corp.
 HYDROL, drycleaning detergent, Riverside Mfg. Co.
 HYDROLATE, laundry chemical, Diamond Alkali Co.
 HYDROLINE, booster and large condensate return, Feeless Pump Div., Food Machinery & Chemical Corp.
 HYDROPEL, water repellent, National Cleaners Chemical Mfg. Co.
 HYDROSITE, reducing bleach, Nu-Pro Mfg. Co.
 HYDROSORB, solvent purifier, Stamford Chemical Co.
 HYDROSULFITES, stripping agent, Jacques Supply Co.
 HYDROTRON, electro-physical water treatment equipment, Heller Laboratories
 HYEX, super-duty firebrick, McLeod & Henry Co., Inc.
 HYFLO SUPER-CEL, filter powder, Johns-Manville
 HYFOAM, detergents, George Stearns Chemical & Mfg. Co.
 HYGEE PINE, pine oil disinfectant, Continental Car-Na-Var Corp.
 HYGENATOR, pillow renovator and sterilizer, Technical Engineering Corp.
 HY-GLOS, gummed, ungummed labels, Tompkins' Label Service
 HYGRADE, plastic buttons, Hygrade Button & Supply Co.
 HY-LO, blanket washer, American Laundry Machinery Co.
 HYPAC, bleach, Lewis National Corp.
 HY-SET, high temperature bonding mortar, Mexico Refractories Co.
 HY-SOL, soap builders, Thompson-Hayward Chemical Co.
 HYSFAR, aluminum and white enamel under-paint, Midland Paint & Varnish Co.
 HY-SPOT, substitute for chloroform, Slater-Robbins Co., Inc.
 HYTEMPITE, high-temperature bonding mortar, Quigley Co., Inc.
 HYTEXAL, built tallow soap, Allen B. Wrisley Co.
 HY-V AIR JET, high-velocity concentrated cooling fan, DeBothezat Fans Div., American Machine & Metals, Inc.
 HYWHITE, blue, Speare Co.
 HY-WHITE, laundry soap, H. Kohnstamm & Co., Inc.

I

I.D.N., iodine stain remover, Package Chemical Co., Inc.
 IMO, rotary pump, De Laval Steam Turbine Co.
 I-R, liquid spotter for ink stain removal, Caled Products Co., Inc.
 I-R-C, lightweight insulating refractory castable and concrete, Mexico Refractories Co.
 I.S., press clamp, slip chain, racks, Ink-O Products Co.
 IXL, laundry soaps, Fry Bros. Co.
 IDEAL, filter paste soap, National Cleaners Chemical Mfg. Co.
 IDEAL, grease cup, Lunkenheimer Co.
 IDEALITE, non-glare neon-type light, Ideal Lighting Co., Inc.
 IDEAL STYLE A, laundry washer, American Laundry Machinery Co.
 ICEFALS, synthetic detergents, General Dye-stuff Corp.
 ICEPONS, synthetic detergents, General Dye-stuff Corp.
 ILG, centrifugal and propeller fans, unit heaters, Ilg Electric Ventilating Co.
 IMPACTOR, valve handwheels, Edward Valves, Inc., subsidiary Rockwell Mfg. Co.

IMPERIAL, asbestos pipe covering and blocks, Ruberoid Co.
IMPERIAL, chest-type ironer, Imperial Laundry Machinery Co.
IMPREGNOLE, water repellent, Warwick Chemical Co.
INCO, metal castings, fittings, tubings, nickel alloy fittings, castings, etc., International Nickel Co., Inc.
INCONE, alloy of nickel and chromium, International Nickel Co., Inc.
INDEL-O-MARK, indelible automatic marking pen, Mark-O Corp.
INDIAN, laundry soap, North Coast Chemical & Soap Works
INDIVIDUAL PROCESS, ironer, Prosperity Co., Inc.
INDIVIDUAL PRODUCTION, washer, Prosperity Co., Inc.
INDUSTRIALITE, laundry soap, New South Mfg. Co., Inc.
INDUSTRIAL, fabric conditioner for wetcleaned garments, Namco Chemical Corp.
INDUSTRIAL, neutral soap chips and powder, Armour & Co.
INEX, laundry rinsing aid, H. Kohstamm & Co., Inc.
INGERSOLL-RAND, compressors, blowers, pumps, Ingersoll-Rand Co.
INGRAIN, laundry starch, Industrial Grain Products, Ltd.
INKEK, ink remover, Patek & Co.
INKGO, liquid oxidizing agent, A. L. Wilson Chemical Co.
INK-O, spotting aid, Ink-O Products Co.
INNER-PACK, steel split repair sleeves, Dresser Mfg. Div., Dresser Industries, Inc.
INSTANT, moth killer, Berlou Mfg. Co.
INSTITUTIONAL, fabric preservative, conditioner, Namco Chemical Corp.
INSTITUTIONAL, starch, A. E. Staley Mfg. Co.
INSULAG, plastic refractory lagging and finishing material for high-temperature equipment, Quigley Co., Inc.
INSULBRIX, insulating firebrick, Quigley Co., Inc.
INSULCRETE, refractory material, Quigley Co., Inc.
INTERNATIONAL, chemical mixing machinery, tanks, International Engineering, Inc.
INTERNATIONAL, garment bags, International Paper Co.
INTERNATIONAL, trucks, diesel and gasoline engines, International Harvester Co.
INVADER, pumps, Schirmer-Dornbrier Pump Co.
INVERCARB, zeolite, Hungerford & Terry, Inc.
INVERSAND, water-softening minerals, water softeners, Hungerford & Terry, Inc.
INVINCIBLE, industrial vacuum cleaners, Invincible Vacuum Cleaner Mfg. Co.
IN-WEAVING, reweaving, In-Weaving Co. of America
IODASE, iodine stain remover, Greenville Chemical Co.
IPCO, safety equipment, Industrial Products Co.
IRON CITY, duck cover, Pittsburgh Waterproof Co.
IRON FIREMAN, stokers, gas and oil burners, Iron Fireman Mfg. Co.
IRON HORSE, metalware, Rochester Can Co.
IRONOIL, ironing surface lubricant, Patek & Co.
IRON OILITE, machine parts lubricating bearings, Amplex Div., Chrysler Corp.
IRON-RITE, metallic flatwork ironer pads, Fullo Corp.
IROQUOIS, safety pins, Risdon Mfg. Co.
IROQUOIS, soap, Lewis National Corp.
IROX, iron-oxide-zinc chromate paint, Subox, Inc.
ISOCLO, powdered bleach, Carman & Co., Inc.
ISOGRAPH, stencil ink, Carman & Co., Inc.
ISOMODE, vibration absorber pads, press shock absorber units, M. B. Mfg. Co., Inc.
ISOTABS, tablet-form laundry blue, Carman & Co., Inc.
IVORY, soaps, chips, powder, Procter & Gamble Distributing Co.

J

J.F.S., variable speed reducers, Stephens-Adamson Mfg. Co.
J-M, packings, gaskets, Johns-Manville
J-P-S, drycleaning soap, R. R. Street & Co., Inc.
JANET, steam necktie presses, glove forms, Sheddlo-Heinz Mfg. Co.
JAY BEE, super-duty firebrick, Mexico Refractories Co.
JAY-DEE, fur stretcher, fur and leather softener, mothproofing liquid, Jay-Dee, Inc., Mfg. Chemicals
JEFFERSON ISLAND, salt, Jefferson Island Salt Co., Inc.
JEFFERSON THOROBRED, wood and metal laundry and drycleaning washers, Laundry Machinery Div., Jefferson Wood Working Co.
JEN-R-8, liquid or beaded soap regenerator, Carman & Co., Inc.

JETVEYOR, steam jet ash conveyor, Brady Conveyors Corp.
JEFFY, cuff and pocket brusher, bagging devices, bag racks, Medalie Mfg. Co.
JEFFY, puff irons, Columbia Laundry Machinery Co.
JEFFY, sock turner, Time Savers, Inc.
JEFFY SORTERS, sorting hooks with clip attached, Frank R. Smith, Co.
JEFFY-STICK, ink remover, National Cleaners Chemical Mfg. Co.
JOHNSON, flexible metal hose, Johnson Metal Hose, Inc.
JOHNSON, ironer oil, liquid stripper, Johnson Chemical Industries, Inc.
JOHNSON, rotary pressure joints, steam water heater, compressed air separators, compressed-air aftercoolers, high-temperature boiler feed system, solenoid valves, automatic boiler water controls, Johnson Corp.
JOHNSTON, steam boilers, Johnston Bros., Inc.
JOINT-SEAL, anti-seize, joint seal and clean-out plug compound, Armite Laboratories
JOMAC, scorch-resistant fabric, C. Walker Jones Co.
JULIAN-KAY, collars, cuffs, neckband replacement, Julian-Kay Co.
JUMBO, metallic wool padding, International Steel Wool Corp.
JUMBO, net pins, Risdon Mfg. Co.
JUNIOR, extractor, Fletcher Works, Inc.
JUNIOR CASCADE, laundry washer, American Laundry Machinery Co.
JUNIOR CHALLENGER, washer, Miller Laundry Machinery Co.
JUNIOR KING, net pins, Keyes-Davis Co.

K

K & B, barrels, bins, boxes, buckets, cabinets, chutes, cylinders, guards, stocks, tanks and ventilating systems, Kirk & Blum Mfg. Co.
K.B., soap powder, sour, Kliegman Bros., Inc.
K-D, nets, marking pins, Keyes-Davis Co.
KMS, mothproofing agent, Kinford Co.
K.O.P., coco-potash soap, Armour & Co.
K & T, valves, Klipfel Mfg. Co.
K-V, heavy fluid lubricant, Keystone Lubricating Co.
KALITE, calcium carbonate, Diamond Alkali Co.
KAME-KLEEN, soap powder, Kamen Soap Products Co., Inc.
KAMENOL D, synthetic detergent, Kamen Soap Products Co., Inc.
KAMENOL M, powdered laundry soap, Kamen Soap Products Co., Inc.
KAMENOL 92, soap flakes, Kamen Soap Products Co., Inc.
KAMENOL 60, soap beads, Kamen Soap Products Co., Inc.
KAMEX R, vegetable powdered low-titer soap, Kamen Soap Products Co., Inc.
KANE, gas-fired steam boilers, Mears-Kane-Ofeldt, Inc.
KANTARK, non-renewable fuses, Trico Fuse Mfg. Co.
KANT FALL, spur rolls to attach to rug beater, Moore's Time Saving Equipment Co.
KARAGAMI, powdered wax, refined wax, Concord Chemical Co.
KARGO-KING, aluminum-alloy van panel truck bodies, J. B. E. Olson Corp.
KARPET-KARE, carpet cleaner, Bigelow-Sanford Carpet Co.
KARRICK, laundry detergents, Karrick Co.
KOTOLIGHT, generators, light plants, Kato Engineering Co.
KATR FURS, fur repair, remodeling, purchasing service, David G. Kaplan's Drycleaner's Service
KAY, concentrated mothproof, Kinford Co.
KAY-BEE, cover cloth, Kliegman Bros., Inc.
K-BI, break alkali, Laundry Chemicals Co.
K-BRITE, drycleaning soap, H. Krevit & Co., Inc.
KECKLEY, steam and liquid control equipment, O. C. Keckley Co.
KEEDOL, drycleaning filter soap with antiseptic and mothproofing, A. F. Wolke Co.
KEELER CP, boilers, E. Keeler Co.
KEEN AIR DISHNER, odor absorber, diaper can deodorant, fumigant, Keystone Chemical Co.
KEE-STAR, corn starch, Keever Starch Co.
KEEVER, rug and carpet size, Keever Starch Co.
KEEVER CLEANER, cleaner for metal sleeve form and press, Keever Starch Co.
KEKO, moth-repellent garment storage bags, Kennedy Car Liner & Bag Co., Inc.
KELCO, cutting oil, Keystone Lubricating Co.
KELITE, laundry and boiler compounds, Kelite Products, Inc.
KELLEY, heat reclaimers, hot-water heaters, storage heaters, Patterson-Kelley Co., Inc.
KELLOGG-AMERICAN, air compressors, paint spray equipment, American Brake Shoe Co., Kellogg Div.
KELMAKER, pressure filters, vacuum traps, sight-glass assemblies, Kelmaker Mfg. Co.

KEMLEK, drycleaning detergent, Kemlek Corp., Div. Tobin-Halpert, Inc.
KEM PRO, cover cloths, Whitehouse Nylon Products
KEMWASH, laundry liquid detergent, Kemlek Corp., Div. Tobin-Halpert, Inc.
KEN DIDZ, synthetic drycleaning machine, John W. Young
KENITE, diatomaceous earth filter powder, Kenite Corp.
KENNEDY, paper bags, Kennedy Car Liner & Bag Co., Inc.
KENNEY, water softeners, filters, zeolite, Kenney Softener & Filter Co.
KENOO, powder synthetic wetcleaning detergent and water softener, Keystone Chemical Co.
KENTUCKY, trucks, dollies, boxes, Kentucky Box & Truck Co.
KERODEX, protective hand cream, Ayerst, McKenna & Harrison
KEWANEE, heating boilers, power boilers, storage water heaters, steel tanks, water heating garbage burners, Kewanee Boiler Corp.
KEWANEE-ROSS, heat exchangers, Kewanee-Ross Corp.
KEY KLEEN, liquid wetcleaning detergent and oil soap, Keystone Chemical Co.
KEY-LOK, brake blocks, Raybestos-Manhattan, Inc.
KEYLUBRIC, air tool lubricant, Keystone Lubricating Co.
KEYPROOF, combination flameproofing and mothproofing agent, Keystone Chemical Co.
KEYSO, drycleaning soap, G & G Chemical Co.
KEYSPRAY, mothproofing agent and insecticide, Keystone Chemical Co.
KEystone, alkalis, Swift & Co.
KEystone, extractors, Keystone Laundry Machinery Co.
KEystone, hat sizing, Keystone Aniline & Chemical Co., Inc.
KEystone, leather soap and liquid glove soap, nail polish remover, white kid glove bleach, Keystone Aniline & Chemical Co., Inc.
KEystone, steam generator, Erie City Iron Works
KEystone, washable service apparel, Keystone Laundry & Apron Mfg. Corp.
KEystone, wax spot remover, Keystone Lubricating Co.
KEystone DRI-KLEEN, spot remover, Keystone Chemical Co.
KEY-TAG, automatic mechanical identification system, Key-Tag Checking System Co.
KEY-TEX, filter soap, G & G Chemical Co.
KEYTEX, CONC, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
KEYTHOI, deodorizing machine and scent blocks, Keystone Scent Conditioner Corp.
K-3, laundry soap builder, Wyandotte Chemicals Corp.
K-555, low-temperature soap powder, Laundry Chemicals Co.
K411, boiler stew, to remove scale deposit, National Chemical Sales Co., Laboratory, Inc.
KIDDE, fire extinguishers, Walter Kidde & Co., Inc.
KIDDYKOLOR, garment bags, Kennedy Car Liner & Bag Co., Inc.
KILLARNEY, laundry blue, Patek & Co.
KIL-ODE, deodorant, Warner Laboratories
KING-CLIP, gate valve, Lunkenheimer Co.
KIRK'S, spray guns, formers, finishers, Kirk's Leather Cleaners
KISCO, boiler room equipment, Kisco Boiler & Engineering Co.
KITAGUNI, Japan wax, Strohmeier & Arpe Co.
KLAMP-ON, pin sets, Moore's Time Saving Equipment, Inc.
KLEANWELL, oil soap, Minnesota Chemical Co.
KLEEN-EM, slightly alkaline soap containing powder and optical bleach detergent, Bigelow Chemical Products Corp.
KLEENAP, rug detergent, H. Kohstamm & Co., Inc.
KLEENFLO, activated sweetener, L. A. Salomon & Bro.
KLEENHAMPER, portable laundry and drycleaning drop box, Kleenhamper Inc.
KLEEN PAK, drycleaners' bags, Diem & Wing Paper Co.
KLEEN-RITE, coconut-oil soap, National Cleaners Chemical Mfg. Co.
KLEEN SHEEN, paste rug soap, Adco, Inc.
KLEEN SUDS, soap, Lewis National Corp.
KLEERITE, indelible inks, American Writing Ink Co., Inc.
KLEERVU, safety eye guard, gauge-glass protector, Wright-Austin Co.
KLENEASE, liquid wetcleaning soap, Caled Products Co., Inc.
KLEHA CID, laundry sour, Wyandotte Chemicals Corp.
KLE, pomice soap, Colgate-Palmolive Co.
KLEGELT, alkali, break powder, Kliegman Bros., Inc.
KLEGSPUN, nets, cover cloth, Kliegman Bros., Inc.
KLEGWEAVE, nets, Kliegman Bros., Inc.
KLING "100", laundry and drycleaning tumblers, Kling "100" Corp.
KLIP-LOK, clamps for fuse clips, test clamps, Trico Fuse Mfg. Co.
KLIP-ZIT, drier clips, Time Savers, Inc.

TRADE NAMES

K-LIQUID SOAP, liquid soap, Laundry Chemicals Co.
KLEX, paint remover, Nu-Pro Mfg. Co.
KLORGENT, synthetic soap, G & G Chemical Co.
KLOR-LENE, spotting solution with chloroform action, Davies-Young Soap Co.
KLORO, liquid detergent for use with synthetic solvent units, Adco, Inc.
K-MASTER, steam traps, air traps, continuous boiler blow-down valves, Kaye & MacDonald Inc.
K-MASTER KLEEN AIR, filters, Kaye & MacDonald, Inc.
K-MONEL, heat-treating alloy, International Nickel Co., Inc.
KM-129, odor absorber, deodorant, disinfectant, fumigant, synthetic detergent, chemical water conditioner, Keystone Chemical Co.
KNIGHT-WARE, acid-proof chemical stoneware, Maurice A. Knight
KNITTED PADDING, press pads, Knitted Padding Co.
KNOTLOCK, laundry nets, New York Net Co.
KOKO, liquid wetcleaning soap, Adco, Inc.
KOKOWET, wetcleaning soap, Stadham Co., Inc.
KOLD, sour, Minnesota Chemical Co.
KOLITE, cold-water built soap, John T. Stanley Co., Inc.
KOL MASTER, stokers, Kol-Master Corp.
KOLORTEX, industrial soap, Allen B. Wrisley Co.
KOLURGO, hot-water liquid color stripper, Washine National Sands, Inc.
KOMO, blues, ironer oil, Minnesota Chemical Co.
KOMONOL, organic detergent, Minnesota Chemical Co.
K-121-B, break powder, Laundry Chemicals Co.
K-122, soap builder, Laundry Chemicals Co.
KON-NEG-TOR, mercury switch, General Electric Co.
KOOL-WAIV, axial fans, International Engineering, Inc.
KORDITE, transparent, reusable, plastic moth-proof storage bags, Kordite Corp.
KORO, filter detergent, Nu-Pro Mfg. Co.
KOROLA, French-cuff fastener, Boston Clip & Tag Co.
KOSMETEX, spotter for cosmetic stains and liquors, Patek & Co.
KOVERLOX, file fasteners, Speed Products Co., Inc.
KOYLON, foam pressing pads, U. S. Rubber Co., Koylon Div.
KRAN-MER, dyeing, Kran-Mer Corp.
KREX, hand cream for relieving burns, cuts, etc., Caled Products Co., Inc.
KROMOAK, leather and waterproof leather belting, Charlotte Leather Belting Co.
KROMOTAN, leather and waterproof leather belting, Charlotte Leather Belting Co.
K-SOLVENT, detergent for industrial wetwash, Laundry Chemicals Co.
K-333, built soap powder, Laundry Chemicals Co.
KUFTACKER, stapler for trouser cuffs, Bostitch, Inc.
KUNKLE, safety and relief valves, Kunkle Valve Co.
KURB-SIDE, motor truck bodies, J. B. E. Olson Corp.
KWICK, fluorescent bleach, Eaton Chemical & Dyestuff Co.
KWIK CHANGE, cover and iron springs, Time Savers, Inc.
KWIK-CLIP, skirt and pants clip, Commercial Tag Co.
KWIK ON, rug stretching bars, Moore's Time Saving Equipment Co.
KWIK-SET, bag and net holders, Time Savers, Inc.
KWIK SET, washing-machine timer, H. C. Thompson Clock Co.
KWIK TWISTS, hanger combiners, Commercial Tag Co.
KWK VOLCLAY, bentonite clay, American Colloid Co.

L. M. C., pumps, Lubbock Machine Co., Inc.
L-N, sour, tags, Lewis National Corp.
L-S, leather-surde cleaning soap, Caled Products Co., Inc.
L.S.R., lipstick remover, West Side Corp.
LACLEDE, grates, stokers, Laclede Stoker Co.
LACQUERSOL, spotting agent, Nu-Pro Mfg. Co.
LA FRANCE, fire extinguishers, American-La France-Fosmire Corp.
LAIDLAW, hangers, W. A. Laidlaw Wire Co.
LA-ION, collar supports, Time Savers, Inc.
LAM-TEX, sponge press pads, rubber floor mats, Pittsburgh Tag Co.
LANATEX, controlled alkaline detergent for fugitives, Carman & Co., Inc.
LANATEX C, alkaline detergent for carpets and rugs, Carman & Co., Inc.
LANE, baskets, trucks, hampers, W. T. Lane & Bros., Inc.
LANICO, wetcleaning soap, Della Products Co.
LANI-TEX, press pads, floor mats, Pittsburgh Tag Co.

LAPELLETES, lapel protectors, M. H. Cronauer Co.
LAQUERSOL, lipstick and nail polish remover, Nu-Pro Mfg. Co.
LARTON, assembly hooks, sorters, Larton Products Co., Inc.
LASCO, liquid coconut oil, soap builder, Los Angeles Soap Co.
LATCO, boilers, P. M. Lattner Mfg. Co.
LATHERINE, rug shampoo, Continental Car-Na-Var Corp.
LATTNER, boiler feed pumps and return systems, P. M. Lattner Mfg. Co.
LAUNDERITE, starch, Clinton Foods
LAUNDERLOG, recording washwheel thermometer, water level recorder, Foxboro Co.
LAUNDERLUXE, high phosphate laundry soap, New South Mfg. Co., Inc.
LAUNDR-EEZ, synthetic detergent, Thompson Chemical Co.
LAUNDRO-PAD, pre-cut pad for laundry presses, Arrow Mfg. Co.
LAUNDRY COMPOUND, soap builder, Solvay Sales Div., Allied Chemical & Dye Corp.
LAUNDRY SODA, special cleaner, Solvay Process Div., Allied Chemical & Dye Corp.
LAUNDRY SOUR, acid material for neutralizing, Turco Products, Inc.
LAUNSO, medium pH built soap, E. F. Drew & Co., Inc.
LAUREL, rubber markers, Laurel Co.
LAVEKOL, spot washing, General Dyestuff Corp.
LAVEL APPARATUS, process for bleach, Wallace & Tiernan Products, Inc.
LAVOX, machinery enamel, Pittsburgh Plate Glass Co., Paint Div.
LAWSON, pulleys, hand trucks, wheels, casters, Menasha Wood Split Pulley Co.
LAYCO, garment hanger, Star Service Hanger Div., L. A. Young Spring & Wire Corp.
LAYNE, vertical turbine pumps, water treatment and conditioning equipment, water well supplies, Layne & Bowler, Inc.
LAYTITE, floor coating, Steelco Mfg. Co.
LE ANN, fur repair and remodeling services, Le Ann Fine Furs
LEATHERFAST, suede leather dye, Keystone Aniline & Chemical Co., Inc.
LEATHER-LIFE, leather dressing, Nycco Products Co.
LEATHER-LUSTRE, smooth-leather colors, Keystone Aniline & Chemical Co., Inc.
LEATHER SOAP, leather cleaning and glove soap, Spis Products Co.
LECTRICK-ICE, water cooler, Uniflow Mfg. Co.
LECTRO-IR, fans, Sun Fluorescent Electric Co.
LED-PLATE, thread and gasket paste, Armit Laboratories
LEEBAW, counter conveyor, industrial trucks, Leebaw Mfg. Co.
LEEF, flexible forms, Leef Bros., Inc.
LEFFEL, automatic underfeed stokers, steam boilers, James Leffel & Co.
LENACO, baskets, bleaches, blues, ink, ironer oil, pads, Baunels, press covers, cement, Lewis National Corp.
LENACO NO-SAG, tumbler pads, Lewis National Corp.
LENASOL, disinfectant, Lewis National Corp.
LENDLE, overcoat shaper, U. S. Hoffman Machinery Corp.
LEPRECHAUN MIST, suede dressing, Leprechaun, Inc.
LESLIE, controls and regulators, pumps, valves, Leslie Co.
LESO, leather soap, Nu-Pro Mfg. Co.
LESTOIL, liquid synthetic detergent, Adell Chemical Co.
LETHALAIRE, aerosol insecticide, Virginia Smelting Co.
LETHOL MOTH FUMIGANT, insecticide, Mortemoth Chemical Laboratories
LEVELENE, textile dyeing assistants, American Aniline Products, Inc.
LEVELENE FGD, color-setting liquid, American Aniline Products, Inc.
LEVELOL, stripper, Eaton Chemical & Dyestuff Co.
LEVELOMETER, gauges, Liquidometer Corp.
LEVELON, blue, H. Kohnstamm & Co., Inc.
LEVELON, moisture leveler and neutral spotting base, National Cleaners Chemical Mfg. Co.
LEVER FORMULA, 770, 777, 880, all-purpose granules, mild flakes, heavy detergents, Lever Brothers Co.
LEVER SOAP, high-titer chips, granules, Lever Brothers Co.
LEWIS, baskets, trucks, G. B. Lewis Co.
LEWIS, rug binding machines, Lewis Invisible Stitch Machine Co.
LEXARD, milled toilet soap, Swift & Co.
L-4008, laundry starch, Clinton Foods Inc.
LIBERTY, fiber tag material, marking tags, Liberty Marking Tag, Inc.
LIFE FOR FABRICS, water repellent and fabric conditioner, Franklin Research Co.
LIFETIME MOTHPROOFING, moth repellent, Sibur Mothproof Co.
LIFE-TUBE, ball-bearing pillow blocks and flange units, T. B. Wood's Sons Co.
LIFTVEYOR, inclined belt conveyor, Mechanical Handling Systems, Inc.
LIGHTER METHOD, laundry packages, Sutherland Paper Co.
LIGHTNING, drycleaning, fur and upholstery cleaning compounds, Mortemoth Chemical Laboratories

LIGHTNING, water-repellent dip tank, Hopkins Equipment Co.
LIME-SOLV, calcium solvent, H. Kohnstamm & Co., Inc.
LINCOLD, rug and carpet redyeing, Lincoln-Hudson Rug Dyers, Inc.
LINK-BELT, chains, conveyors, stokers, power transmission machinery, Link-Belt Co.
LINN, special bodies, delivery trucks, Linn Coach & Truck Div., Great American Industries, Inc.
LINOL, disinfectant, Lincoln Research, Inc.
LION-BILT, work uniforms, Lion Uniform Co.
LIP-I-CATER, lipstick and lacquer remover, W. F. Johnson Products Co.
LIPPOFF, cleaning compounds, Mortemoth Chemical Laboratories
LIPSTICK-MUV, lipstick remover, Package Chemical Co., Inc.
LIQUA-BREAK, washroom detergent, Davies-Young Soap Co.
LIQUID BLUE, blue, Diamond Alkali Co.
LIQUID BLUE, H. Kohnstamm & Co., Inc.
LIQUID DRI-CLENE, drycleaning detergent, Armour & Co.
LIQUID MORMETH, insecticide, Mortemoth Chemical Laboratories
LIQUIDOMETER, gauges, Liquidometer Corp.
LIVAVATOR, condensate return system, Morehead Mfg. Co.
LIQUOR CHLOROXYLENOLIS, disinfectant, Lincoln Research, Inc.
LISTMAKER, listing machines, National Marking Machine Co.
LITTLE CHIEF, pumps, Fairbanks Morse & Co.
LITTLE GIANT, water spray gun, Stebbins Mfg. & Supply Co.
LITTLE SCOTCHMAN, Scotch marine boilers, U. S. Hoffman Machinery Corp.
LITTLE WARRIOR, metal washer, Illinois Laundry Machinery Mfg. Co.
LITTLE WONDER, electric whiskbrush, American Pressboard Co., Inc.
LIVE OAK, leather transmission belting, Eagle Belting & Leather Co.
LIXATE, rock-salt dissolver, International Salt Co., Inc.
L-4, spotter and stripper, Lewis National Corp.
LOCK END, trouser guards, necktie forms, Paulin Products Co.
LOEBL, garment, rug dyeing, Loebi Dye Works, Inc.
LO-FRONT, washer, U. S. Hoffman Machinery Corp.
LOGIE, soap builder, Minnesota Chemical Co.
LO-HED, hoists, car pullers, American Engineering Co.
LOK-TITE, marking tags, Liberty Marking Tag Co., Inc.
LO-MAINTENANCE, electric motors, Allis-Chalmers Mfg. Co.
LONGROY, laundry net, Carson Textile Co., Inc.
LONGLIFE, ironer aprons, ironer ribbons, Tingle, Brown & Co.
LOOKOUT, boilers, Lookout Boiler & Mfg. Co.
LO-SET, high temperature mortar, Mexico Refractories Co.
LOSEY, stokers, Canton Stoker Corp.
LOSTOKER, boiler stoker, Detroit Stoker Co.
LOT SYSTEM TAG-O-MATIC, marking machine for lot system identification, Textile Marking Machine Co., Inc.
LOUDEN, conveyors, cranes, hoists, Louden Machinery Co.
LOW FRONT, washers, Zephyr Laundry Machinery Co.
LOX-IN, collar supports, Time Savers, Inc.
LOYAL, automatic starcher, Armstrong Machinery Co.
LOYAL, pressing machines, vacuum systems, starching machines, Loyal Textile Machinery Corp.
LT 60, built red oil soap, Allen B. Wrisley Co.
LUBEFLEX, starch aid lubricant, Hood Chemical Co., Inc., Crescent Div.
LUB-N-WAX, wax, Spicare Co.
LUBRI-KLEEN, lubricating agent for ironers and presses, Paper Chemicals Co.
LUCIDE A-20, waterproof insecticide, Pest Control Equipment Co.
LUNKENHEIMER, valves, boiler mounts, lubricators, grease cups, gauges, etc., Lunkenheim Co.
LUPOGUM, size and finishing, Jacques Wolf & Co.
LUSTERETTE, portable fur ironing and glazing machine, Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
LUSTER-ON, fur glaze, Nycco Products Co.
LUSTERSUDS, soap, H. Kohnstamm & Co., Inc.
LUSTERWAY, drycleaning system for franchise basis, McCleary Associates, Inc., and/or Root & Co.
LUSTERWAY COMPOUND, fur cleaning sawdust, Root & Co.
LUSTERWAY FORMULA, fur conditioner and glaze, Root & Co.
LUSTERWAY SOLVENT, fur cleaning solvent, Root & Co.
LUSTRALI, liquid synthetic cleaner, National Cleaners Chemical Mfg. Co.
LUSTRE SEAL, floor sealing and repair material, Keystone Chemical Co.

LUSTRO-KLEEN, liquid wetcleaning soap, Slater-Robbins Co., Inc.
LUXOL, starch lubricant, E. F. Drew & Co., Inc.
LUXOR PLASTIC, transparent garment bags, Rassenfoss Bag Co., Inc.

Me

McDONNELL, boiler water level control, McDonnell & Miller, Inc.
McDONNELL & MILLER, water controls, McDonnell & Miller, Inc.
McELMOYL, canvas baskets, canvas shipping hampers, canvas basket trucks, M. J. McElmoyl Co.
McKEE-ECLIPSE, blowers, boiler feed and return systems, gas burners, controls, Eclipse Fuel Engineering Co.

M

MIF, pipe fittings, Malleable Iron Fittings Co.
M-K-O, automatic boiler feed systems, Mears-Kane-Ofeldt, Inc.
M. L. B., waterproof cemented leather belting and dressing, Milwaukee Leather Belting Co.
M&M, boilers, level controls, McDonnell & Miller, Inc.
M & M, break booster, M & M Chemical Co.
M. S. A., first-aid equipment, safety equipment, salt tablets and dispensers, Mine Safety Appliance Co.
MACBETH DAYLIGHTS, color matching and daylight lamps, Macbeth Corp.
MACBETH pH METERS, control equipment, indicators, test kits, Macbeth Corp.
MACHETA AIRFOIL, industrial ventilating fans, Aerovent Fan Co.
MAFORCO, for storage equipment, racks, Market Forge Co.
MAGIC, double collar support, J. W. Steele & Co.
MAGIC, rug measuring table, Moore's Time Saving Equipment Co.
MAGIC CORNER, boxes, Sutherland Paper Co.
MAGIC INKSTICK, ink eradiator, Nu-Pro Mfg. Co.
MAGIC-SEAL, shirt bands, Century Paper Products
MAGLA SILVER, cover cloth, Magla Products
MAGNESOL, adsorptive filter powder, Westvaco Chemical Div., Food Machinery & Chemical Corp.
MAGNETROL, liquid level controllers, Fred H. Schaub Engineering Co., Inc.
MAGNETTE, circuit breakers, Heinemann Electric Co.
MAGNET, a type of free vane air-operated controller, Bristol Co.
MAGNUS, cleaning materials, Magnus Chemical Co., Inc.
MAJESTIC, steel steam boilers, Ames Iron Works
MAJOR, lubricators, Lunkenheimer Co.
MAMMOTH CASCADE, laundry washer, American Laundry Machinery Co.
MANHATTAN, belt hose, tank lining, Raybestos-Manhattan, Inc.
MANISOLV, prespotter, Merson Products Co.
MANITOWOC, drycleaning tumbler and unit, continuous still, Manitowoc Engineering Corp.
MARATHON, ironer tape and feed ribbons, asbestos ironer covers and pads, black nylon cloth, Benwall Mfg. Co., Inc.
MARCLENE, charge detergent, penetrant wet prespotter, Marcene Products Corp.
MARCO, hot-water heaters, storage heaters, feed-water heaters, oil separators, Marshall Heater Co.
MARCO, racks, lighting fixtures, Cleaners Sales & Equipment Corp.
MARINE, grease cups, Lunkenheimer Co.
MARIONETTE, shirt bands, Marion Mfg. Co.
MARKOGRAPH, marking machines, marking ink, George Steigler Co.
MARK-O-INK, indelible marking ink, Mark-O Corp.
MARK-O-PEN, indelible marking pen, Mark-O Corp.
MARK RITE, tags, Lewis National Corp.
MARLEX, corrosion inhibitor, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
MAR-MAK, rug drycleaning machine, Mar-Mak Machinery Mfg. Co.
MARMON-HERRINGTON, all wheel drive truck, Marmon-Herrington Co., Inc.

MAROSAL, rinsing aid, Minnesota Chemical Co., Inc.
MARPEL, water repellent, Marcene Products Corp.
MARSH, valves, Jas. P. Marsh Corp.
MARSHALL'S, spotters, Marshall Co.
MARTEX, non-slip composition flooring, treads, American Abrasive Metals Co.
MARTINIZING, drycleaning system, Martin Equipment Co., Div. American Laundry Machinery Co.
MARTIN KOLORCARDS, direct-mail-customer control system, Reba Martin, Inc.
MARVA, scrubbing soap, Marvella Corp.
MARVEL, cotton padding, canvas cement, Pittsburgh Waterproof Co.
MARVEL, ink remover, Keystone Aniline & Chemical Co., Inc.
MARVEL, laundry, drycleaning equipment, Marvel Mfg. Co.
MARVEL, marking machine, foot-powered staplers, indelible marking ink, Marvel Marking Machine Co.
MARVELCLEEN, synthetic drycleaning soap, Trico Chemical Div., Tri-State Equipment Co.
MARVELLA, rubber enamel, rubber glass and rubber enamel floor resurfacing materials; rubber glass and rubber paint, rug shampoo, wax and oil remover, upholstery shampoo, Marvella Corp.
MARVELO, built soap powder, West Side Corp.
MARVESO, drycleaning soap, Nu-Pro Mfg. Co.
MASONEILAN, steam plant equipment, Mason-Neilan Regulator Co.
MASS PRODUCTION CURTAIN DRYER, 3-way curtain drier, National Dryer Mfg. Co.
MASTER, drying tumblers, Hammond Laundry-Cleaning Machinery Co.
MASTER, glove cleaning soap, Keystone Aniline & Chemical Co., Inc.
MASTER, lint brush, Master Products Co.
MASTER, presses, laundry and drycleaning equipment, Master Machinery Co.
MASTER, sleeve, folder, Fome Equipment Corp.
MASTER, soaps, Lusco Supply Co.
MASTER, valves, Chace Valve Div., American Laundry Machinery Co.
MASTER-BILT, washers, B & G Machinery Co., Inc.
MASTER BRAND, hatters' equipment, supplies, Maxant Button & Supply Co.
MASTER CASCADE, laundry washer, American Laundry Machinery Co.
MASTER CHALLENGER, washer, Miller Laundry Machinery Co.
MASTER CONTROL UNIT, steam system, Velocity Steam Production Engineering, Inc.
MASTER DRY CLEANER, paste drycleaning soap, Keystone Aniline & Chemical Co., Inc.
MASTER, advertising work garments, Geo. Master Div.
MASTER KING, net pins, Keyes-Davis Co.
MASTER PLATE, floor resurfacing concrete, Master Builders Co.
MASTER QUICK, floor patching concrete, Master Builders Co.
MASTER SEAL, self-seal shirt bands, Package Masters, Inc.
MASTER SELF-SEAL, shirt bands for advertising messages, Package Masters, Inc.
MATCHLESS, flatwork ironers, Prosperity Co., Inc.
MATCHLESS, monorail trolley, Chisholm-Moore Hoist Corp.
MATEER, extractors, Western Laundry Machinery Co.
MAXANT MASTER, pleating machine, Maxant Button & Supply Co.
MAXINE, milled toilet soap, Swift & Co.
MECLASOL, washroom detergent, Carlton Chemical Co., Inc.
MECOLOID, colloidal clay compound, H. Kohnstamm & Co., Inc.
MEHL, transparent bags, Mehl Mfg. Co.
MEMO TAGS, pre-printed instruction tag, Larton Products Co., Inc.
MENDEX, tabs and tapes for restructuring, marking, Mendex Corp.
MEND-MASTER, machines for applying tapes or tabs, Mendex Corp.
MENTOR BEADS, synthetic detergent, Colgate-Palmolive-Peet Co.
MERASOL, drycleaning soap, R. R. Street & Co., Inc.
MERCURY, petroleum cleaning systems, filters, tumblers, Mercury Cleaning Systems, Inc.
MERCURY, presses, Troy Laundry Machinery Div., American Machine & Metals, Inc.
MERCURY, soaps, detergents, Theobald Industries
MERMAID, break powder, Los Angeles Soap Co.
MERSON, soaps, strippers, Merson Products Co.
MERTEX, drycleaning soap, Merson Products Co.
METALASTIC, packings, Metalastic Mfg. Corp.
METALATE, laundry chemical, Diamond Alkali Co.
METEOR, electric hoist, Chisholm-Moore Hoist Corp.
METLA-COTA, boiler water treatment, State Mfg. Co., Inc.
METRO, delivery truck bodies for light, bulky loads, Metropolitan Body Co., Inc.
METSO, detergents, Philadelphia Quartz Co.
METSO 88, rug cleaner, Philadelphia Quartz Co.
METSO 53, silicate-type cleaner, Philadelphia Quartz Co.
METSO GRANULAR, sodium metasilicate, Philadelphia Quartz Co.

METSO 99, sodium sesquisilicate, Philadelphia Quartz Co.
MEXICAST, plastic refractory concrete, Mexico Refractories Co.
MEX-LOX, jointing material, Mexico Refractories Co.
M-5, insulating firebrick, Mexico Refractories Co.
M-50, M500, drycleaning washer, Western Laundry Machinery Co.
MICRO-KLEAN, filters, Cuno Engineering Corp.
MICROMET, rust and corrosion preventative, Calgon, Inc.
MIDCO, flameproofing agent, Merson Products Co.
MIDGET, continuous towel cabinet, Steiner Sales Co.
MIDGET, controls, Morehead Mfg. Co.
MIDGET, static eliminator for industrial machinery, Simco Co.
MIDGET KING, marking pins, Keyes-Davis Co.
MIDGET-MATIC, laundry washers, Hammond Laundry-Cleaning Machinery Co.
MIDGET PERFECTION MARKER, marking machine, Perfection Marking Machine Co.
MIDIFORM, all-around spotter, Merson Products Co.
MIDWEST, stainless steel washer, vacuum traps, drying cabinets, Midwest Laundry & Cleaning Machinery Co.
MILCO, colorback (for restoring color to faded fabrics), shampoo, A. O. Miller & Co.
MILDEW-CHEK, mildew preventative, Chek Products, Inc.
MILDEX, mildewicide, Patek & Co.
MILDUSIZE, drycleaning mildew preventative, Cidex Corp.
MILLER, laundry washers, Miller Laundry Machinery Co.
MILLER, lighting fixtures, Miller Co.
MILLICAL, calcium carbonate, Diamond Alkali Co.
MILLSFRAY, insecticide, Keystone Chemical Co.
MILNOR, laundry, drycleaning extractors, washers, Pellerin Milnor Corp.
MILO, drycleaning paste soap, R. R. Street & Co., Inc.
MINCO, soaps, Minnesota Chemical Co.
MINIATURE SLEEVES, sleeve formers, Wichita Precision Tool Co., Inc.
MINI-LINE, pneumatic indicators and controls, Bailey Meter Co.
MINUTE MAN, extractor, presses, Troy Laundry Machinery Div., American Machine & Metals, Inc.
MINUTE MAN, JR., tumblers, Troy Laundry Machinery Div., American Machine & Metals, Inc.
MIRACLE MONIX, rug cleaning compound, mothproofing agent, Monix Co.
MIRZA, rug cleaning system and machine, rug duster, rug dryroom conveyor, rug drying unit, rug wringer, American Laundry Machinery Co.
MISSION BELL, toilet soap, Los Angeles Soap Co.
MITCO, drycleaning washer, tumblers, J. B. Mitchell Co.
MIZON, rug cleaning detergent, Fumol Corp.
MKAYO, boilers for oil firing, Mears-Kane-Ofeldt, Inc.
MOBILE HAMPER, clothes cart, R. B. Smith Co.
MOBILMARKER, storage bin, marking hopper and marking table, G. H. Bishop Co.
MOCO, drycleaning soap, fabric deodorant, liquid wetcleaner, spotter, dye pads, Package Chemical Co., Inc.
MODINE, unit heaters, coolers, Modine Mfg. Co.
MOELLER, recorders, thermometers, Moeller Instrument Co.
MOFLEX, tire rebuilding and repair materials, Mohawk Rubber Co.
MOGRIP, tire recapping stock, tire rebuilding materials, Mohawk Rubber Co.
MOGUM, tire recapping stock, tire rebuilding materials, Mohawk Rubber Co.
MOHAWK, padding, Egan Cotton Mills
MOHAWK, tallow soap chips and powder, Swift & Co.
MOHAWK, tire recapping stock, tire repair materials, Mohawk Rubber Co.
MOLAFORM, stain remover, Package Chemical Co., Inc.
MONAD G, neutral synthetic detergent, Colgate-Palmolive Co.
MONARCH, synthetic solvent drycleaning machine, Dextra Corp.
MONARCH, washer, American Laundry Machinery Co.
MONARCH, wire staples, Vail Mfg. Co.
MONEL, alloy of nickel and copper, International Nickel Co.
MONELLO, Monel pads for overall presses, Resillo Co.
MONEX, extractor, American Laundry Machinery Co.
MONITE, insured mothproofing, Monite Co., Inc.
MONOBLOC, close-coupled centrifugal pumps, Worthington Pump & Machinery Corp.
MONO-CHROME, chrome base plastic refractory, Mexico Refractories Co.
MONO-FABRIK, plastic firebrick, Mexico Refractories Co.
MONO-LINE, plastic firebrick, Quigley Co., Inc.
MONOPOLE OIL, sulphonated oils, Jacques Wolf & Co.
MONOWASH, package laundry unit, U. S. Hoffman Machinery Corp.
MONTPELIER, truck bodies for laundry and linen supply delivery, Montpelier Mfg. Co.

TRADE NAMES

MOORE, autographic register, Moore Business Forms, Inc.
 MOORE, trolley conveyor, Chisholm-Moore Hoist Corp.
 MOORES OCTOCLENE, rug cleanser, Moore's Time Saving Equipment Co.
 MO-REX, dry press firebrick, Mexico Refractories Co.
 MORHEAT, boiler and steam generators, Morheat Sales Co.
 MORLEX, corrosion inhibitor for boiler water and steam, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
 MOROCO, rug sizings, National Starch Products, Inc.
 MORRO, medium-titer soap flakes, Swift & Co.
 MORSE, drum plug wrench, drum dispensing racks, bottle tippers, drum hand trucks, Morse Mfg. Co., Inc.
 MORTEMOTH, triple-strength crystal and spray insecticide, Mortemoth Chemical Laboratories
 MOTEX, 17-inch extractor, American Laundry Machinery Co.
 MOTH-ASEPTIC, mothproofing germicide, Perm-Aseptic Corp.
 MOTH-CHEK, mothproofing agent, Chek Products, Inc.
 MOTHPROOFITE, insecticide, mothproofing concentrate, Mortemoth Chemical Laboratories
 MOTH-SAN, mothproofing agent, Huntington Laboratories, Inc.
 MOTH SEAL, storage bags, Lincoln Bag Co., Inc.
 MOTH SECTOL, dual-action moth spray, Fumol Corp.
 MOTOPUMP, water supply pump, Yeomans Bros. Co.
 MOTOR PUMP, solvent and water pump, Ingersoll-Rand Co.
 M. F. 189, wetting and dispersing agent, Lewis National Corp.
 MRS. STEWART'S, liquid bluing, Luther Ford & Co.
 M-26, M-23, and M-20, insulating firebrick, Mexico Refractories Co.
 MULSOLITE, lubricant, spotter, penetrant, R. R. Street & Co., Inc.
 MULSOL-K, overall cleaner, Laundry Chemicals Co.
 MULTIBRAID, braided metallic filter cloth, Multi-Metal Wire Cloth Co., Inc.
 MULTI-CLEAN, rug scrubbing equipment, rug and upholstery shampoo, Multi-Clean Products, Inc.
 MULTI-CUSHION, felt padding, Pittsburgh Waterproof Co.
 MULTIFLEX, calcium carbonate, Diamond Alkali Co.
 MULTIGRAPH, hand-operated duplicating machine, Addressograph-Multigraph Corp.
 MULTIGRIP, floor plates, U. S. Steel Co.
 MULTILEAF, filter leaves, Multi-Metal Wire Cloth Co., Inc.
 MULTITHERM, air-conditioning units, Clarge Fan Company
 MULTI-V DRIVE, V-belt drives and sheaves, Worthington Pump & Machinery Corp.
 MUND'S, inclined water tube boiler, Mund Boilers, Inc.
 MURCO, unit heaters, D. J. Murray Mfg. Co.
 MUROZA, feather cleaning and sterilizing system, American Laundry Machinery Co.
 MURPHY'S, drycleaning soaps, oil soaps, Phoenix Oil Co.
 MW 50, asbestos furnace cement, Philip Carey Mfg. Co.
 MYRO, water softeners, Hungerford & Terry, Inc.
 MYSTRON, drycleaning unit, U. S. Hoffman Machinery Corp.

N

N-C, staples, stapling machines, Neva-Clog Products, Inc.
 N.C.S., drycleaning soap, National Cleaners Chemical Mfg. Co.
 N-L, plastic impregnated tags, ink, Wm. J. Nicholson Laboratories
 N-M-D, globe, angle, check and quick operating valves, Lunkenheimer Co.
 N. P., stain remover, glove color, dry type water repellent, stripper, size, suede oil, Nu-Pro Mfg. Co.
 N-B-4, enzymic digester, George E. Mead Co.
 NACCONOL, synthetic organic detergent, National Aniline Division, Allied Chemical & Dye Corp.
 NAIABOIL, small oil burners, National Airoil Burner Co., Inc.
 NAJORT, laundry washers, R. Ewing & Sons, Inc.
 NALCITE, resinous, ion exchangers, National Aluminate Corp.
 NALCO, heating units for driers, North American Electric Lamp Co.
 NALCO, water-treatment chemicals, National Aluminate Corp.
 NALOX, nail polish remover, Warco Laboratories
 NAMCO, boiler compound, dry and wet water repellents, fabric finishing compounds, Namco Chemical Corp.
 NAMICO, alkali compounds, laundry silk and woolen soap, National Milling & Chemical Co.

NAPOLENE PASTE FILTER SOAP, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
 NAPSEPTIC, sour, E. F. Drew & Co., Inc.
 NAPSOAP 23, 60, laundry soaps, E. F. Drew & Co., Inc.
 NAPSOD, alkali compound, special detergents, E. F. Drew & Co., Inc.
 NAPSO, medium-titer powdered built soap, E. F. Drew & Co., Inc.
 NAPSOLV, spotting agent, E. F. Drew & Co., Inc.
 NAPSO 22, oil built soap, E. F. Drew & Co., Inc.
 NAPSUDS, rug and carpet soap, E. F. Drew & Co., Inc.
 NAPTEX, oil built soap, E. F. Drew & Co., Inc.
 NAPTHOLE, alkali compound, special detergents, E. F. Drew & Co., Inc.
 NAPTHOLE, ironer oil, E. F. Drew & Co., Inc.
 NAPTHOLE B, medium-high pH detergent, E. F. Drew & Co., Inc.
 NAPSTONE, complete laundering detergent, E. F. Drew & Co., Inc.
 NAPWAX, ironer wax, E. F. Drew & Co., Inc.
 NASHUA, double-face fannel, Nashua Textile Co.
 NASHUA, package sealing machine, Nashua Package Sealing Co.
 NATCO, instantaneous indirect-fired water heaters, National Combustion Co.
 NATIONAL, boiler seam protector, National Boiler Protector Co.
 NATIONAL, charge test kits for strong soap, National Cleaners Chemical Mfg. Co.
 NATIONAL, cash registers, accounting machines, National Cash Register Co.
 NATIONAL, charge soap, for charge systems, National Cleaners Chemical Mfg. Co.
 NATIONAL, driers, stretchers, drying cabinets, tumblers, National Dryer Mfg. Co.
 NATIONAL, dry size, used with Stoddard solvent and perchlorethylene, National Cleaners Chemical Mfg. Co.
 NATIONAL, forced air ventilating system, National System of Garage Ventilation, Inc.
 NATIONAL, identification systems, labels, seals, price lists, tags, National Tag & Label Corp.
 NATIONAL, marking equipment, marking ink, belt conveyors, National Marking Machine Co.
 NATIONAL, soot remover and rust-preventative treatment, National Chemical Sales Co., Laboratory, Inc.
 NATIONAL AIROIL, oil burners and gas burners, National Airoil Burner Co.
 NATIONAL LANG, listing machines, National Marking Machine Co.
 NATIONAL REWEAVING SERVICE, reweaving equipment, Wonder Weavers
 NATIONAL TAPPER, sealing machine, Nashua Package Sealing Co., Inc.
 NATIONAL TRUCK LEASING SYSTEM, truck leasing and rental services, National Truck Leasing System
 NAT-MAR-CO, marking-machine supplies, National Marking Machine Co.
 NATE'S OIL, belt dressing, Webb Belting & Supply Co.
 NEBULYTE, oil-gas burner, Anthony Co.
 NECCHI, sewing machines, Necchi Sewing Machine Sales Corp.
 NEET, printed crush-proof shirt packaging, Market Industries Co., Inc.
 NEET, shirt package, Patek & Co.
 NEM-A, shirt-folding machine, J. W. Steele & Co.
 NEO-SHINE, wax, Huntington Laboratories, Inc.
 NEOTONE, sour, Diamond Alkali Co.
 NEOTE, specialty soap, Turco Products, Inc.
 NEPTUNE, leather belt cement, Graton & Knight Co.
 NE-TO, starch, A. E. Staley Mfg. Co.
 NEUTRACIDE, sour, Lewis National Corp.
 NEUTRA-LENE, deodorant neutralizer, Davies-Frugg Soap Co.
 NEUTRA LUSTRE, for rug cleaners, Standard Chemical Works Co.
 NEUTRASOL, synthetic detergent, Lewis National Corp.
 NEUTRASUDS, flake or powder, high-titer tallow soap compound, E. F. Drew & Co., Inc.
 NEUTRATON, sour, Lewis National Corp.
 NEUTRATINI, sour, Lewis National Corp.
 NEUTROGEN, sour, Lewis National Corp.
 NEUTRONAP, sour, E. F. Drew & Co., Inc.
 NEUTROPHOR, laundry neutralizer and whiten-er, Carlton Chemical Co., Inc.
 NEUTROSOAP, neutral laundry soap, Carlton Chemical Co., Inc.
 NEUTROTONE, detergent, Endris Chemicals, Inc.
 NEVA-CLOG, stapling machines, wire staples, Neva-Clog Products, Inc.
 NEVA-SLIP, pants clip, Commercial Tag Co.
 NEVASTANE, lubricant, Keystone Lubricating Co.
 NEVER-SLIP, collar protectors, Phoenix Products Co.
 NEVERSLIP, tie hangers, Memphis Hanger Co. & Pittsburgh Hanger Co.
 NEVERSTRETCH, feed ribbon, Southern Mills, Inc.
 NEW DEPARTURE, ball, radial and thrust bearings, New Departure, Div. General Motors Corp.
 NEWHOUSE, spotting guns, brushes, counter racks, sleeve formers, prest pad, spotting noses, sleeve boards, wetcleaning aprons, Newhouse Co.

NEWMAN, watchmen's clocks, Detex Watch-clock Corp.
 NEW-MATIC, presses, New York Pressing Machinery Corp.
 NEW NO. 30 CLEANER, fur cleaner, Nycco Products Co.
 NEW YORKER, drycleaning, laundry presses, New York Pressing Machinery Co.
 NIAGARA, chemical, oil and water meters, Buffalo Meter Co.
 NIAGARA, filter screens, Niagara Filter Corp.
 NICE, ball and thrust bearings, Nice Ball Bearing Co.
 NICHOLSON, strainers, floats, traps, W. H. Nicholson & Co.
 NILES, steel drums, Republic Steel Corp.
 9000 SERIES, steel-framed two-wheel hand trucks, Fairbanks Co.
 NI-ROD, electrode for machinable welds, International Nickel Co., Inc.
 NISSEN, dye and bleach resistant color-marking and writing tube, John P. Nissen, Jr., Co.
 NITROX, cleaner, rust inhibitor, Solvay Process Div., Allied Chemical & Dye Corp.
 NO-BAK, ironer, Zephyr Laundry Machinery Co.
 NO-CHLOR, spotting agent, Nu-Pro Mfg. Co.
 NO-DARN, mending iron, No Darn Co.
 NO-EFFORT, handkerchief and napkin press and handkerchief buffer, American Laundry Machinery Co.
 NOEX, petroleum solvent drycleaning unit, drycleaning tumbler, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
 NO-FLAM-O, flame-proofing for fabrics, Namco Chemical Corp.
 NOKORODE, drycleaning, laundry press pads, Fullo Corp.
 NO-KRUSH, garment carrier, U. S. Hoffman Machinery Corp.
 NOLA TOILET SOAP, soaps, Iowa Soap Co.
 NO LAX, spotting agent, Warco Laboratories
 NO LINT, fabric preservatives and conditioner for linen supplies, Namco Chemical Corp.
 NO-LINT-WORRIES, black bags, Zuckerberg Co.
 NO-MAR TREATMENT, stain and water repellent, Paper Chemicals, Inc.
 NO-MIX, bundle separators, Rosenthal Mfg. Co.
 NO-MIX, identification system, Checking System
 NOMOLD, mold preventative, H. Kohnstamm & Co., Inc.
 NON-CRUSH, shirt carriages, Time Savers, Inc.
 NON-FER-AL, calcium carbonate, Diamond Alkali Co.
 NON-IONIC, fabric conditioner, Namco Chemical Corp.
 NON-SHIFT, wire garment hanger, Para-Lux Products Co.
 NON-SKID, floor tiles, Virginia Greenstone Co., Inc.
 NON X.L., water repellent, Boston Clip & Tag Co.
 NORCO, meters, timers and control devices, Norman Control Co.
 NOBIT, activated carbon, L. A. Salomon & Bro.
 NORTH STAR, fur cleaning compound, Walter Haertel Co.
 NORUST, laundry sour, Washine National Sands, Inc.
 NOR-WIL, press covers, asbestos covers, Norton & Williams, Inc.
 NOWOOD CASCADE, washer, American Laundry Machinery Co.
 NO-SNAG, laundry marking fountain pen, Cleaners Specialty Supplies Co.
 NOSOK, non-enzymic digester, spot remover, George E. Mead Co.
 NO STARCH, fabric conditioner and finishing aid for shirt laundries, Namco Chemical Corp.
 NO-STRING MARK, tape device for flatwork presses, Rosenthal Mfg. Co.
 NOTASTANE, lubricant, Keystone Lubricating Co.
 NO-THREAD, compression fittings, Dresser Mfg. Div., Dresser Industries, Inc.
 NOTRUX, mechanical loading and unloading extractor, American Laundry Machinery Co.
 NO-TUB, boiler return system, David Stout & Sons
 NUCHLOR, volatile spotter, Nu-Pro Mfg. Co.
 NU-CLEANING, synthetic drycleaning unit, U. S. Hoffman Machinery Corp.
 NU-COAT, glove and leather finish, National Cleaners Chemical Mfg. Co.
 NU-DI, leather dye, Nu-Pro Mfg. Co.
 NU-FLUO, laundry sour, Johnson Chemical Industries, Inc.
 NU-FLUO, economy sour, Johnson Chemical Industries, Inc.
 NU-FLUO EXTRA, sour for high bicarbonate water, Johnson Chemical Industries, Inc.
 NU-LUS, leather dressing, neutral, Nu-Pro Mfg. Co.
 NUMBERETTE, hand numbering machine, American Numbering Machine Co.
 NUMBER 3, 11, 33, blues, Lewis National Corp.
 NUMBER 4, blue, stripper, Lewis National Corp.
 NUMBER 44, blue, Minnesota Chemical Co.
 NUMBER 209, general formula, R. R. Street & Co., Inc.
 NU-NAP, rug cleaner, Certified Chemical & Equipment Co.
 NU-NAP PROCESS, shine removal service, Bestway Shine Removal Co., Inc.

NUODEX 87, mildew preventative, Nuodex Products Co., Inc.
NU-PAL, lint remover, Perma Products Co.
NU-PRO, ink and stain remover stick, Nu-Pro Mfg. Co.
NU-SHEEN, dyeing service, Omaha Dye Works
NUSHEEN, special alkali compounds, Speare Co.
NU-SO, detergent, Nu-Pro Mfg. Co.
NU-SOL, soap builders, Thompson-Hayward Chemical Co.
NUSOLVO, spotting agent, Nu-Pro Mfg. Co.
NUSUEDE, suede finishes, Eaton Chemical & Dyestuff Co.
NU-TEX, drycleaning soap, Nu-Pro Mfg. Co.
NU-TEX-TIZE, drycleaning detergent, Nu-Life Mfg. Co.
NUTRA SUDS, neutral soap flakes, E. F. Drew & Co., Inc.
NUTROL, synthetic wetcleaner, Keystone Aniline & Chemical Co., Inc.
NUTRONAP, sour, E. F. Drew & Co., Inc.
NUTTING, floor trucks, casters, wheels, Nutting Truck & Caster Co.
NU-WAY, liquid filter soap, Davies-Young Soap Co.
NU-WEIGH, hanging clothes scale, Newhouse Co.
NU-WOOD, insulation board, Wood Conversion Co.
NYLCO, moth preventatives, Nycco Products Co.
NYLCO, prepared fur dyes, Nycco Products Co.
NYLCOT, laundry net, Southern Mills, Inc.
NYL-EON, nylon covers and cloth, G. S. Robins & Co.
NYLO, filter and laundry bags, press covers and cloth, X. S. Smith, Inc.
NYLO-DUK, "Hydrator" slings, F. H. Bonn Co.
NYLONETS, nylon laundry nets, X. S. Smith, Inc.
NYLOTEX, nylon press covers, X. S. Smith, Inc.
NYLSEW, nylon sewing thread, Hemmway & Bartlett Mfg. Co.
NYTEX, press pads and covers, R. Lally Co.
NY-WUL, press covers, Stadham Co., Inc.

O

O.I.C., all types valves, Ohio Injector Co.
O.T., laundry-drycleaning extractors, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
OAKITE, detergents, Oakite Products, Inc.
OAKITE COMPOUND NO. 32, scale and rust remover, Oakite Products, Inc.
OAKITE PENETRANT, detergent, Oakite Products, Inc.
OAKVILLE KWIK, wire staples, Oakville Div., Seoville Mfg. Co.
OAKVILLE, "T" pins-brass, handi-pins-steel, Oakville Div., Seoville Mfg. Co.
OASIS, drinking water cooler, Ebco Mfg. Co.
OBBARK, leather belting, waterproof leather belting, Charlotte Leather Belting Co.
OBLITO, stain remover, H. Kohnstamm & Co., Inc.
O'BRIEN, water storage heaters, O'Brien Steam Specialty Co., Inc.
OCOCO, extractor baskets, Ohio Centrifugals Co.
OCTA-CLENE, rug cleanser, Moore's Time-Saving Equipment Co.
ODO-STICK, garment odor remover in stick form, Nu-Pro Mfg. Co.
OFELDT, boiler, Mears-Kane-Ofeldt, Inc.
OILGO, concentrated spotting agent, Carman & Co., Inc.
OILITE, self-lubricating bearings, machine parts, Amplex Div., Chrysler Corp.
OIL-MIST, automatic lubrication systems, Alemite Div., Stewart-Warner Corp.
OIL-RITE, oil cups, oilers, Oil-Rite Corp.
O.K. CORN STARCH, corn starch, Hubinger Co.
OLATE FLAKES, low-titer soap, Procter & Gamble Distributing Co.
OLIN, cellophane, Olin Cellophane Div., Ecusta Paper Corp.
OLIVE C, soap, Stadham Co., Inc.
OLIVESCO, detergent, Cowles Chemical Co.
OLIVULO, toilet soaps, Allen B. Wrisley Co.
OLSENMARK, marking inks, marking machinery, stamping presses, OlsenMark Corp.
OLSON, automatic laundry washers, Olson Industries, Inc.
OLSON, pressure filters, solvent stills, Olson Filtration Engineers, Inc.
OLSON KURB SIDE, aluminum package delivery body, J. B. E. Olson Corp.
OLYMPIC, extractor, Troy Laundry Machinery Div., American Machine & Metals, Inc.
OMNI-SOUR, laundry sour, Carlton Chemical Co., Inc.
ONE-HUNDRED, synthetic solvent drycleaning unit, Columbia Appliance Corp.
140-F, safety petroleum drycleaning equipment, U. S. Hoffman Machinery Corp.
ONE-LAY, shirt finishing machine, J. W. Steele & Co.
ONE SHOT, writing ink remover, Eaton Chemical & Dyestuff Co.
ONE-SPOT, scale, Toledo Scale Co.

132, starch, A. E. Staley Mfg. Co.
\$1000.00 GUARANTEED, insecticides, B. Heller Co.
ON-THE-SPOT, synthetic drycleaning equipment, A. B. Temple Co.
OPALOID, buttons, Stadham Co., Inc.
OPENETS, laundry nets and fabrics, Davis Mills Inc.
OFEN-TOP, extractors, Prosperity Co., Inc.
OPERATIVE TI-ME-TER, time signals, visual, audible equipment control, Bidwell Mfrs.
OPTO-MATIC, constant lever oilers, Trico Fuse Mfg. Co.
ORIGA-FAB, sport shirt sizing, Harris Bros. Mfg. Co., Inc.
ORR, wool padding, Orr Felt & Blanket Co.
ORTHOLATE, laundry chemical, Diamond Alkali Co.
ORTHOSILICATE, detergent, Diamond Alkali Co.
ORVUS, wetcleaning detergent, Procter & Gamble Distributing Co.
ORVUS EXTRA GRANULES, synthetic detergent, Procter & Gamble Distributing Co.
ORVUS W. A. PASTE, wetcleaning detergent, Procter & Gamble Distributing Co.
OSOMOMETER, odor measurement device or apparatus, Odor Instruments Inc.
OSPECO, concentrated drycleaning soap, Oil States Petroleum Co., Inc.
O SPOTTER, stain remover, H. Kohnstamm & Co., Inc.
OUTSERTS, package insert, Allied Printing & Stationery Co., Inc.
OXALATE-A, sours, Standard Chemical Works Co.
OXYFUME, fumigant, Carbide & Carbon Chemical Corp., Unit of Union Carbide & Carbon Co.
OZITE, insulation, laundry felt, American Hair & Felt Co.
OZONITE, built soap, Procter & Gamble Distributing Co.

P

PH, laundry marking tags, Boston Clip & Tag Co.
P.D.O., wetcleaning detergent, Nu-Pro Mfg. Co.
P.F.S., paste filter soap, Nu-Pro Mfg. Co.
P.I.U., variable speed changers, Link-Belt Co.
P.M., built soap, Thompson-Hayward Chemical Co.
P-R, colorless paint and varnish remover, Caled Products Co., Inc.
P.V., soap builder, New South Mfg. Co., Inc.
PAASCHE, airbrushes, air painting equipment, Paasche Airbrush Co.
PACE, chlorinated solvent soap, Caled Products Co., Inc.
PACIFIC, borax and sodium sesquicarbonate, Columbia-Southern Chemical Corp.
PACIFIC, sour bluing, Beech Soap Co.
PACKLESS, flexible hose, couplings, Packless Metal Hose Inc.
PADRIGHT STEEL WOOL, padding, press and ironer pads, padding, Padright Co.
PAINT-I-CATER, paint remover, W. F. Johnson Products Co.
PAINT-SOLV, paint remover, Huntington Laboratories, Inc.
PAISLEY, general line adhesives, Paisley Products, Inc.
PAK-AGE-KART, packaged work transporter, G. H. Bishop Co.
PAK-RITE, plastic garment bags, cedarized and plain combination bags for shirts, ties, gloves, sweaters, hats, etc., Pak-Rite Flexible Packaging Co.
PAK-TITE, compound, American District Steam Co., Inc.
PALM, palm oil soap, Swift & Co.
PALMETTO, cotton belting, Victor Balata & Textile Belting Co.
PALMOIL, soap, Rome Soap Mfg. Co.
PALM ROSE, soaps, Iowa Soap Co.
PANCO, straight pins, Radson Mfg. Co.
PANAREX, C.B., recorder, Permutit Co.
PANTEX, drycleaning & laundry machinery, Pantex Mfg. Co.
PANTEX RHODES NATIONAL HATTER, hat blocking machine, Pantex Mfg. Co.
PANTS HORSE, trouser rack, R. B. Smith Co.
PAPER-STRUT, garment hanger, Star Service Hanger Div., L. A. Young Spring & Wire Corp.
PARACOH, water heaters, Davis Engineering Corp.
PARAGENE, stripper, Eaton Chemical & Dyestuff Co.
PARAGON, gas engine lubricators, Lunkenheimer Co.
PARALATE, alkali compound, Diamond Alkali Co.
PARAMOUNT, garment, trouser bags, hanger covers, Mutual Paper Box Co., Inc.
PARA-SEAL, hanger cover, Para-Lux Products Co.
PARAZOLE, spot remover, Eaton Chemical & Dyestuff Co.
PARAZYME, digestive agent, enzyme spotting, Carman & Co., Inc.

PARIS, steam-air garment finisher, Garment Finishing Equipment Corp.
PARIS CONVERTIBLE, steam-air finishers, Garment Finishing Equipment Corp.
PARISIAN, sleeve former, U. S. Hoffman Machinery Corp.
PARIS MASTER FINISHER, steam-air garment finisher, Garment Finishing Equipment Corp.
PARKER, industrial boilers, Sid E. Parker Boiler Mfg. Co., Inc.
PARMELEE, wrench, Walworth Co.
PARNOL, detergent, Jacques Wolf & Co.
PAROL, special alkali compounds, Speare Co.
PARR, typewriter keys, rubber fingertips, Speed Products Co., Inc.
PARROT, binder clips, Speed Products Co., Inc.
PAR-X, stain remover, H. Kohnstamm & Co., Inc.
PATCH MASTER, repair cloth kits, R. D. Busard & Son
PATEXPAC, printed garment bags, shirt envelopes, Patek & Co.
PATINEX, upholstery shampoo, cleaning compound, Mortemoth Chemical Laboratories
PATINEX FURLIFE, fur shampoo, cleaning compound, Mortemoth Chemical Laboratories
PATRICK, steam iron, Lawrence M. Stein Co.
PATROL, watchmen's clocks, Detex Watch-clock Corp.
PATTERSON-KELLEY, condensers, coolers, Patterson-Kelley Co., Inc.
PAWNEE, alkali soap builder, Wyandotte Chemicals Corp.
PAY-TEX, drycleaning soap for synthetic solvent systems, Patek & Co.
PATYXOL, oil, paint and grease remover, Patek & Co.
PC 450, neutral vegetable potash soap, E. F. Drew & Co., Inc.
PEARSON, gas, oil, coal burners, air heaters, Peabody Engineering Corp.
PEARL, built soap, flake and granulated, Colgate-Palmolive Co.
PEELCOTE, protective coating for metal parts, Watson Standard Co.
PEERLESS, laundry cover cloth, two ply cover duck, Thomaston Mills
PEERLESS, pumps, Peerless Pump Div., Food Machinery Corp.
PEERLESS, scales, Triner Scale & Mfg. Co.
PEERLESS BEACON, laundry marking tags, Boston Clip & Tag Co.
PEET, white laundry bar soap, Colgate-Palmolive Co.
PEE-VEE, lacquer remover, Riverside Mfg. Co.
PELATONE, fur cleaning and finishing compound, Carman & Co., Inc.
PELLERIN-MILNOR, laundry, drycleaning extractors, Pellerin Milnor Corp.
PENBRITE, alkaline detergent, Pennsylvania Salt Mfg. Co.
PENETEX, detergent, Stadham Co., Inc.
PENETRO, jet-action cleaning process, M. Blau Mfg. Co.
PENETRO, marking ink, National Marking Machine Co.
PENETROIL, grease solvent, H. Kohnstamm & Co., Inc.
PENETRON, glue solvent, Better Packages, Inc.
PENETRON, starch, H. Kohnstamm & Co., Inc.
PENLO, engine lubricator, Lunkenheimer Co.
PENNANT, drycleaning soap, Davies-Young Soap Co.
PENSUDS, wetcleaning detergent, Pennsylvania Salt Mfg. Co.
PENN DRAKE WASHOIL, oil treatment of linens, Pennsylvania Refining Co.
PENNSYLVANIA, tires, tubes, batteries, Pennsylvania Rubber Co.
PENZONE, bleach, Pennsylvania Salt Mfg. Co.
PENSAL, alkaline detergent, Pennsylvania Salt Mfg. Co.
PENSAL-B, alkaline detergent, Pennsylvania Salt Mfg. Co.
PENSAL-M, alkaline detergent, Pennsylvania Salt Mfg. Co.
PENSAL-O, alkaline detergent, Pennsylvania Salt Mfg. Co.
PENSO, spotting agent, A. L. Wilson Chemical Co.
PEN-TRATE, spotting aid, Kennedy Products Co.
PEPO, prespotter, Stadham Co., Inc.
PEPSOL, drycleaning filter soap, A. F. Wolke Co.
PER, automatic drycleaning unit, Vic Cleaning Machine Co.
PERCHLORON, bleach, Pennsylvania Salt Mfg. Co.
PERCHLOR 600, drycleaning unit, Manitowoc Engineering Corp.
PERCLENE, drycleaning solvent, E. I. du Pont de Nemours & Co., Inc.
PERDOL, sodium perborate monohydrate, E. I. du Pont de Nemours & Co., Inc.
PERFECT, wheat starch, Keever Starch Co.
PERFECTA, steam and air spotting gun, Florian J. Hyman
PERFECTION, corn starch, Huron Milling Co.
PERFECTION, reducing valves, American District Steam Co., Inc.
PERFECTION, staple tags, Tagit Co.
PERFECTION, white neutral soap, Beach Soap Co.
PERFECTO, synthetic powder, National Cleaners Chemical Mfg. Co.
PERFECT WHEAT, laundry starch, Keever Starch Co.
PERFEX, controls and regulators, gauges, Perfex Corp.
PERFEX, press pads, Resillo Co.

TRADE NAMES

PERK, synthetic drycleaning machine, Pantex Mfg. Co.
 PERKLOR, synthetic solvents, Dow Chemical Co.
 PERLITE, soap builder, H. Kohnstamm & Co., Inc.
 PERMAFIBER, MARKING, fiber material for manufacturing laundry and drycleaning tags, Permafiber Corp.
 PERMA-KLEEN, perchlorethylene solvent, Dextrex Corp.
 PERMA-MARKER, marking kit, Wm. J. Nicholson Laboratories
 PERMA-NET-MARKERS, identification tags, Spence Co.
 PERMA-NETS, rubber washing nets, Spence Co.
 PERMANITE, acid- and alkali-resisting flooring, Maurice A. Knight
 PERMAPROOF, flameproofing agent, B. F. Goodrich Co.
 PERMA-TEX, nylon press covers, X. S. Smith, Inc.
 PERMATIZED, marking tags and tape, indelible marking ink, Wm. J. Nicholson Laboratories
 PERMO, flameproofing, mothproofing agent, Permo Products Co.
 PERMOBOND, rubber-lined tanks, pipe and pipe fittings, U. S. Rubber Co.
 PERMOFAD, pads for handkerchief ironer, Re-silio Co.
 PERMOTEX, nylon press covers, X. S. Smith, Inc.
 PERMUTIT, water softeners, filters, Permutit Co.
 PERMUTIT Q, ion exchanger, water conditioner, Permutit Co.
 PERONE, hydrogen peroxide, E. I. du Pont de Nemours & Co., Inc.
 PERSONALIZED, garment bags, Rassenfoss Bag Co., Inc.
 PERSPIR-X, perspiration remover, Paper Chemicals, Inc.
 PETAL SMOOTH, starch, Clinton Foods Inc.
 PETRO, oil burners, pumps and heaters, water heaters, Petroleum Heat & Power Co.
 PETRYN, oil, paint and grease remover, Patek & Co.
 PFAFF, sewing machines, Pfaff Sewing Machine Sales Co.
 PHENIX, cotton and nylon press covers, Phenix Supply Co.
 PHENOLITE, non-ionic synthetic soap, New South Mfg. Co., Inc.
 PHILABELT PRESERVATIVE, belt dressing, Philadelphia Belting Co.
 PHILCO, storage batteries, Philco Corp.
 PHOENIX "SELF STICK," shirt bands, Phoenix Products Co.
 PHOTOSWITCH, timers, pilot relays, controls, Photoswitch, Inc.
 PHOTOGRAPHIC, photoelectric cell, Weston Electrical Instrument Corp.
 PH-PLUS, briquet alkali for water softening, Matheson Chemical Corp.
 PIAZZA, conversion unit, synthetic drycleaning systems, Piazza Engineering Co.
 PICK, water heaters, Pick Mfg. Co.
 PICRIN, volatile spotting compound, R. R. Street & Co., Inc.
 PIEDMONT, leather belting, waterproof leather belting, Charlotte Leather Belting Co.
 PILOT, non-waterproof belt cement, Webb Belting & Supply Co.
 PILOTRON, air-operated pilot, Bailey Meter Co.
 PINETTS, safety pins for shank buttons, Oakville Div., Scoville Mfg. Co.
 PINLUB, wetcleaning soap, Package Chemical Co., Inc.
 PIN-O-TEX, pine oil detergent, Slater-Robbins Co., Inc.
 PIONEER, nylon laundry nets, Renwall Mfg. Co., Inc.
 PIONEER, oil cups, Lunkenheimer Co.
 PISTON-RING, expansion joint, American District Steam Co., Inc.
 PITTCOLOR, calcium hypochlorite, Columbia Southern Chemical Corp.
 PITTSBURGH, paints, Pittsburgh Plate Glass Co., Paint Div.
 PITTSBURGH, wire garment hangers, Pittsburgh Hanger Co.
 FIXALL, lint remover, John E. Coolidge Co.
 FLANER BRAND, leather belting, Philadelphia Belting Co.
 PLASTIC INSULATION, insulating cement, Mexico Refractories Co.
 PLASTIC QUIK-PACH, plastic firebrick, A. P. Green Fire Brick Co.
 PLASTYON, nylon laundry nets, Carson Textile Co., Inc.
 PLEASANT ODOR, fur cleaning fluid, Bernard Sinotta Co.
 PLEX, digester, Patek & Co.
 PLEASURE, a concentrated spotting soap, Caled Products Co., Inc.
 PLIOFILM, bags for shirts, garments, blankets, etc., Clear-View Package Co.
 PLIBRICO, jointless firebrick, incinerators, boiler setting, Plibrico Co.
 PLOJET, smoke eliminators, Plibrico Co.
 PLUS, sprayer (wet or dry), Adco, Inc.
 PNEU-MAT, woven rubber mat, A. N. Braubrook
 POCKETEERS, pocket forms, Leaf Bros., Inc.
 POENSGEN CAROUSEL, automatic 10-washer counterflow laundering unit, International Laundry Equipment Co.
 POLAR BEAR, fur cleaner, Walter Haertel Co.
 POLAR BEAR, fur cleaner, Nycro Products Co.
 POLARIS, fur glazing cleaner, Walter Haertel Co.

POLARSUDZ, cold-water built soap, Beach Soap Co.
 POLARTONE, laundry sour, G. S. Robins & Co.
 POLYMARK, marking machines, Pinnacle Products Corp.
 POMONA, turbine pumps, Fairbanks Morse & Co.
 PONCHO, wet water repellent, Patex & Co.
 PONY, laundry presses, Prosperity Co., Inc.
 POOR FETER PILLOW, complete pillow cleaning service, R. Lally Co.
 POPKINS, store fixtures, Popkins Fixture Co.
 PORTA-PAK, autographic register, Egly Register Co.
 PORTO-FAB, prefabricated buildings, Porto-Fab Co., Inc.
 POSTAGE-METER, postage meter tape, Gummed Tape & Devices Co.
 POW, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
 POWDER DISPENSER, filter powder dispenser, Powder Dispenser Co.
 POWDERED HAWKEYE SOAP, soaps, Iowa Soap Co.
 POWER CIRCLE, presses, Prosperity Co., Inc.
 POWER-FLEX, underfed stokers, Link-Belt Co.
 POWER-FLOW, roof ventilator, DeBothezat Fans Div., American Machine & Metals, Inc.
 POWERMASTER, package automatic boilers, Orr & Sembover, Inc.
 POWERMASTER, stacker, Lewis-Shepard Products, Inc.
 POWER-PAK, drycleaning detergent, Pennsylvania Salt Mfg. Co.
 POWERSON, fire-fighting nozzles, American-La France-Foamite Corp.
 POWER-VEYOR, permanently mounted horizontal belt conveyor, Rapid-Standard Co., Inc.
 POW PLUS, dry powdered soap, Keystone Aniline & Chemical Co., Inc.
 POWR PLUS, air-operated laundry presses, Pantex Mfg. Corp.
 PRATT & CADY, brass and iron valves, Reading-Pratt & Cady Div., American Chain & Cable Co., Inc.
 FREE-HEET, return systems, Fred H. Schaub Engineering Co., Inc.
 FREE-SPOTTER, concentrated prespotter, Raychem Products Co.
 PREFERRED, generators, Preferred Utilities Mfg. Corp.
 PRE-MARKED STRIP TAG, solvent- and waterproof marking tags, Pre-Marked Strip Tag Co.
 PREMIER, gas engine lubricators, Lunkenheimer Co.
 PREPEL, antiseptic soap, Lincoln Research, Inc.
 PREPEL, water repellent, Stamford Chemical Co.
 PRESET, a type of free-vane air-operated controller, Bristol Co.
 PRES-GRIP, shaping and finishing wetcleaned and dyed garments, Pres-Grip Corp.
 PRESO, heavy prespotter, G & G Chemical Co.
 PRE-SPOTTER, heavy-body prespotter, Caled Products Co., Inc.
 PRESPOTTER 5, prespotter, Nu-Pro Mfg. Co.
 PRESPOTTER 23, prespotter, Patek & Co.
 PRESS KING, laundry press pads, Fullo Corp.
 PRESS MASTER, electric steam generator, Automatic (Susman) Steam Products Corp.
 PRESTITTE, flexible metal connector for modern laundry and pressing machines, American Brass Co., American Metal Hose Branch.
 PRESTO, self-sealing paper bands, Sure-Hold Div., Nashua Gummed & Coated Paper Co.
 PRESTO CLEANER, press-head cleaner, Stadium Co., Inc.
 PRESTOPRESS, air-operated drycleaning presses, Goldman Pressing Machine Corp.
 PRIDE, washing powder, Swift & Co.
 PRIMA BRAND, leather belting, Philadelphia Belting Co.
 PRIME SOHP, soap, Beach Soap Co.
 PRIMS COVER A BUTTON, button molds, William Prym, Inc.
 PRINCESS, wire hangers, Vail Mfg. Co.
 PRINTWEIGH, weight printing scales, Toledo Scales Co.
 PROCTOR & SCHWARTZ, automatic shampooing and drying systems for rugs, Proctor & Schwartz, Inc.
 PRODUCTIMETERS, counting machines, Durant Mfg. Co.
 PRODUCTO, timer, American Laundry Machinery Co.
 PROPASOL, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
 PROSPERITY, complete line of laundry and drycleaning equipment, Prosperity Co., Inc.
 PROSPERITY APRONS, clipper and alligator F.W.I. aprons, Carman & Co., Inc.
 PROSPERITY BLUE, concentrated laundry blue, Carman & Co., Inc.
 PROSPERTRON, automatic washer controls, Prosperity Co., Inc.
 PROSPOWAX, powdered F.W.I. wax, Carman & Co., Inc.
 PROTECTO, identification systems, American Laundry Machinery Co.
 PROTECTOGRAPH, checkwriters, check signers, Todd Co., Inc.
 PROTECTOR, colored fabric pick-up bags, F. H. Bonn Co.
 PRO-TEK, protective hand cream, E. I. du Pont de Nemours & Co., Inc.
 PROTUX TOILET SOAP, soaps, Iowa Soap Co.

PRYM'S, garment hangers, safety pins, William Prym, Inc.
 P22, hand stapler, Arrow Fastener Co.
 PUFF-FINISHER, puffers, steam puff irons, G. H. Bishop Co.
 PULLCLEAN, continuous towels cabinets, Pull-clean Towel Cabinet System
 PULVOAX, powdered wax, Lewis National Corp.
 PURATIZE, mildewproofing, Aqua-Sec Corp.
 PURE-TEX, laundry bactericide, Cides Corp.
 PURGE-O-SOL, drycleaning soap, G & G Chemical Co.
 PURGO, soap builder, Minnesota Chemical Co.
 PURITAN, brass pins, Oakville Div., Scoville Mfg. Co.
 PURITY, soap flakes, soap, Iowa Soap Co.
 PURITY, sour, Thompson-Hayward Chemical Co.
 PURKETT, shakeout and conditioning tumblers, assembly reels, bias, Purkett Mfg. Co.
 PURO, spotting compound, Adco, Inc.
 PURO-O-CEL, filter, Propationeers, Inc.
 PURODIESEL, lubricating oils for diesel engines, Pure Oil Co.
 PUROLENE, lubricating oils, Pure Oil Co.
 PUR-O-SAN, drycleaning soap, Huntington Laboratories, Inc.
 PURPLE EDGE, padding, Egan Cotton Mills.
 PYRAMID, laundry nets, R. Lally Co.
 PYRAMID, liquid color stripper, Washine National Sands, Inc.
 PYRATLEX, lipstick, nail polish, paint remover, R. R. Street & Co., Inc.
 PYRENE, fire extinguishers, Pyrene Mfg. Co.
 PYRO, liquid soap, National Cleaners Chemical Mfg. Co.
 PYRO surface thermometer, Pyrometer Instrument Co., Inc.
 PYRO-COTA, acid eradicator, State Mfg., Inc.
 PYROFLEX, acid and alkali resisting paints, Maurice A. Knight.
 PYRO-SOAP, wetcleaning soap, National Cleaners Chemical Mfg. Co.
 PYROTRON, resistance thermometer, Bailey Meter Co.



Q-D, spotting agent, A. L. Wilson Chemical Co.
 Q & S, counter rack, Ink-O Products Co.
 Q-T, heat recirculators, Kisco Boiler & Engineering Co.
 Q-CHROMASTIC, veneer coating for furnace walls, Quigley Co., Inc.
 Q-CHROME, refractory material, Quigley Co., Inc.
 Q-1, airform coat finisher, U. S. Hoffman Machinery Corp.
 Q-7, drier or semi-finisher, U. S. Hoffman Machinery Corp.
 Q-2, airform ladies' jacket finisher, U. S. Hoffman Machinery Corp.
 QUADRA-CLENE, rug-washing machine, Moore's Time Saving Equipment Co.
 QUADRAFOS, water conditioner, detergent, dispersing agent, Rumford Chemical Works
 QUAKER BLUE, laundry blue, Pennsylvania Salt Mfg. Co.
 QUAKER IMPROVED, chlorinated lime, bleach, Pennsylvania Salt Mfg. Co.
 QUALITEX, press covers, puff iron covers, sponge pads, tumbler pads, press cloth, extractor covers, filter bags, double-face flannel, Quality Products Co.
 QUALITY, net pins, Key-Tag Checking System Co.
 QUEEN, wire hangers, Vail Mfg. Co.
 QUICK AID, linen fire hose, fire extinguishers, General Detroit Corp.
 QUICK BREAK, break powder, Wyandotte Chemicals Corp.
 QUICK ELASTIC, liquid and powdered starch, Hubinger Co.
 QUICKLIFT, trucks, Lewis-Shepard Products, Inc.
 QUICKLY, fire brick, Quigley Co., Inc.
 QUIK-CUT, wrapping table, Coffman Mfg. Corp.
 QUIK-CUT, wrapping table, Norman Control Co.
 QUIK-LOK, shirt boxes and collar supports, Century Paper Products
 QUIK-PAC, laundry packaging supplies, Quik Pac Div., H. Wesley Hutchins Co.
 QUIK-PACH, fire brick, A. P. Green Fire Brick Co.
 QUIK-STEAM, press, Butler Mfg. Co.
 QUIKTAG, laundry marking tag, Boston Clip & Tag Co.
 QUIK-TEMP, heating system, Fred H. Schaub Engineering Co., Inc.
 QUIK-GO, digestive agent, Wilson, A. L., Chemical Co.



R.C.C., rug cleaning and finishing compound, soaps, Lewis National Corp.
 R.C.U., rug and upholstery soap, Keystone Aniline & Chemical Co., Inc.

- R.G.F., stain remover, Riverside Mfg. Co.
 R-K, valves and regulators, Ruggles, Klingemann Mfg. Co.
 R-M, asbestos products, packing friction materials and rubber products, Raybestos-Manhattan, Inc.
 RP, high pressure boiler, Titusville Iron Works Co., Div. Struthers Wells Corp.
 RP&C, valves, Reading-Pratt & Cady Div. American Chain & Cable Co., Inc.
 RSR, digestive spotting agent, Wallerstein Co., Inc.
 R-x, spotter, Caled Products Co., Inc.
 RACOLITE, chemical feeders, water rectifier, Rathbun Co.
 RAD-GO, ink eradicator, A. L. Wilson Chemical Co.
 RAINBOW, plastic garment hangers, Henry Hanger Co. of America
 RAINBOW, spotting pencils, Eaton Chemical & Dyestuff Co.
 RAK-GUIDE, rack index for separating garments alphabetically, Para-Lux Products Co.
 RAM, drycleaning soap, Adco, Inc.
 RAMPELLENT, water repellent, Perm-Aseptic Corp.
 RAMSEY, chain drive, chain drive sprockets, shaft couplings, Ramsey Chain Co., Inc.
 RAMTITE, plastic refractory, Ramtite Co., Div. S. Obermayer Co.
 RANAREX, combustion recorder, Permutit Co.
 RANDE, metal press pads, Bergen Machine & Tool Co., Inc., Rande Unit Springs Div.
 RAPID POWER BOOSTER, portable power belt conveyor, Rapids-Standard Co., Inc.
 RAPID ROLLER, conveyor, Rapids-Standard Co., Inc.
 RAPID-WHEEL, conveyor, Rapids-Standard Co., Inc.
 RAPISTAN TABLE-VEYOR, belt conveyor to facilitate general handling of laundry bundles, Rapids-Standard Co., Inc.
 RATHBUN, water softeners and filters, water softening equipment, Rathbun Co.
 RAY, oil and gas burners, pumps, Ray Oil Burner Co.
 RAYBESTOS, brake lining, clutch facing, brake blocks, Raybestos-Manhattan, Inc.
 RAY-METL, clutch facings, Raybestos-Manhattan, Inc.
 RAYSOAP, moisture-bearing drycleaning soap, Rayochem Products Co.
 RAYS, tape, Spear Box Co., Inc.
 RAYS KRAFT, packaging supplies, Spear Box Co., Inc.
 RAYTEN, cold-water soap, John T. Stanley Co., Inc.
 READY-PACK, cast split repair sleeves, Dresser Mfg. Div., Dresser Industries, Inc.
 RECEIV-O-MARKER, identification systems, Best Forms Co.
 RE-CIRK-IT, circuit breakers, Heinemann Electric Co.
 RECLAMITE, stain remover, H. Kohnstamm & Co., Inc.
 RECORDAK, accounting machines and systems, record systems, Recordak Corp.
 RED ARROW, feed ribbon, Southern Mills, Inc.
 RED CHIEF, rubber belting, Webb Belting & Supply Co.
 RED EDGE, pads and padding for flatwork ironers and press machines, Knitted Padding Co.
 RED FLASH, water heaters, Pick Mfg. Co.
 RED & GREEN LINE, laundry fabrics, Hettrick Mfg. Co.
 RED-WHITE-BLUE, matched pants and shirts for rental uniforms, Shreveport Garment Mfg. Co.
 RED-CUT, flannel press pads, F. H. Bonn Co.
 REDLIFT, trucks, Lewis-Shepard Products, Inc.
 RED-MARK, strip tags, Pittsburgh Tag Co.
 RED-TAG, pre-printed marking tag, Larton Products Co., Inc.
 RED LABEL, tallow soap, Beach Soap Co.
 RED LINE, flatwork ironer aprons, Pittsburgh Waterproof Co.
 RED-LINE, garment drier, Hopkins Equipment Co.
 RED LINE, greases, oils, lubricants, Union Oil Co. of California
 REDOTEX, neutral red oil flakes and powder, Allen B. Wrisley Co.
 RED STAR, diapers, towels and toweling, George Wood Sons & Co.
 RED STAR, feed ribbons, New York Belting & Packing Co.
 REDUCO, liquid cloth stripper, Washine National Sands, Inc.
 REDUCTORS, speed reducers, Boston Gear Works, Inc.
 REDUX, indelible ink remover, Boston Clip & Tag Co.
 REE-DRAPE, dry sizing and finishing compound, drycleaning, Riverside Mfg. Co.
 REESCO, powdered laundry soap, Minnesota Chemical Co., Inc.
 REE-TONE, drycleaning detergent, Riverside Mfg. Co.
 REEVES ARMY TWILL, uniform cloth, Reeves Brothers, Inc.
 REFINEX 1, zeolite cleanser and reconditioner, Elgin-Refinite, Inc., Div. of Elgin Softener Corp.
 REFINITE, zeolite water softeners, Elgin-Refinite, Inc., Div. of Elgin Softener Corp.
 REFLEXIT, replasticizer, Patek & Co.
 REGAL, engines, Ames Iron Works
 REGAL, laundry indelible ink, I. Geller & Son.
 REGAL, neutral synthetic detergent, Armour & Co.
 REGENT, 30-pound synthetic drycleaning unit, Detrex Corp.
 REINTJES, dependable arches, suspended walls, Geo. P. Reintjes Co.
 REKAB, powdered soap, soap chips, Minnesota Chemical Co.
 RELIABLE, fur cleaning and fur storage equipment, Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
 RELIANCE, a.c. and d.c. motors, motor generators, Reliable Electric & Engineering Co.
 RE-LOGIK, powdered soap, Minnesota Chemical Co.
 REMA, vacuum systems for presses, Rema Corp.
 REMO, cover-cloth fasteners, rack clips, net and marking pins, trays, safety and steel pins, overall tags, Risdon Mfg. Co.
 RENARDS, leather cleaning and dyeing, Renards' RENEWO, angle, check and globe valves, Lunkenheimer Co.
 RENEX, detergents, Industrial Chemicals Dept. (Atlas Powder Co.)
 RE-NU, potash saponified resin and fatty acids, Armour & Co.
 RENUIT, liquid starch, Washine National Sands, Inc.
 REO, motor trucks, Reo Motors, Inc.
 REP, water repellent, R. R. Street & Co., Inc.
 REPEL-O-MOTH TANK, mothproofing equipment, Repel-O-Products Div., North American Merchandising Co.
 REPUBLIC, controls, instruments, Republic Flow Meters Co.
 RE-PURGO, powdered soap, Minnesota Chemical Co.
 RESEARCH, leather belting, Graton & Knight Co.
 RESEARCH, zeolite, Research Products Corp.
 RESILLO, press pads, Resillo Co.
 RESINTEX, nylon press cloths, Gibraltar Fabrics, Inc.
 RESISTI-CAL, weather-proofing product, Caled Products Co., Inc.
 RESISTO, water repellent, Resisto Laboratories
 RESIZET, sizing, Takamine Laboratory, Inc.
 RESSNY, zeolite, Hungerford & Terry, Inc.
 RESTORTX, liquid sizing, National Cleaners Chemical Mfg. Co.
 RESYN ADHESIVES, glues, gums, sizings, starches, National Starch Products, Inc.
 RETRON, flatwork ironer, American Laundry Machinery Co.
 REVERE, copper and brass, Revere Copper & Brass, Inc.
 REVERE SHOWMASTER, floodlights and lighting equipment, Revere Electric Mfg. Co.
 RE-VI, water repellents, Davies-Young Soap Co.
 REVOLITE, laundry roll covers, padding press covers, Revolite Div. (Atlas Powder Co.)
 REX, soluble liquid drycleaning soap, Davies-Young Soap Co.
 REX-FLEX, metal hose, Flexonics Corp.
 REX-TITE, heat-proof reattachable couplings, Flexonics Corp.
 REX-TUBE, flexible metal hose, Flexonics Corp.
 REX-WELD, metal flexible hose, tubing, Flexonics Corp.
 REZ, charged soap solvent conditioner, U. S. Mining Corp.
 REZEX, resinous zeolite, Elgin-Refinite, Inc., Div. of Elgin Softener Corp.
 REZIFAL, stainless steel, Crucible Steel Co. of America
 R-51, drycleaning unit, Shields Engineering & Mfg. Co.
 R-51A, drycleaning unit, Shields Engineering & Mfg. Co.
 R. H. CONTROL, electronic drycleaning relative humidity control, Adrian Research & Chemical Co.
 RHINAMEL, heavy duty enamel, Tropical Paint & Oil Co.
 RIBBON DELUXE, cotton ribbon, Milwaukee Printed String Co.
 RIBBON-RITE, marking machine, Textile Marking Machine Co., Inc.
 RICE'S, paint products, Barreled Sunlight Paint Co.
 RIDDAX, special alkali compound, Wyandotte Chemicals Corp.
 RIMACO, size, stripper, wetcleaning soap, Riverside Mfg. Co.
 RIMACO GENERAL FORMULA, ink and stain remover, Riverside Mfg. Co.
 RINGKEY, filter pads, Multi-Metal Wire Cloth Co., Inc.
 RINK-L-FREE, garment distributor, Time Savers, Inc.
 RINTEX, soap and alkali compound, Wyandotte Chemicals Corp.
 RISDON, cuff fasteners, marking flags and targets, Risdon Mfg. Co.
 RISOGHAN, powdered soap, Allen B. Wrisley Co.
 RIVERSIDE, wet spotter, carpet shampoo, stripper, Riverside Mfg. Co.
 ROADOL, paint, oil and grease remover, Package Chemical Co., Inc.
 ROADOL L, wet spotter, Package Chemical Co., Inc.
 ROBERTS, numbering machine, Roberts Numbering Machine Co.
 ROBINETS, laundry nets, G. S. Robins & Co.
 ROBINS, acetic sour, G. S. Robins & Co.
 ROBOT, self-contained automatic washers, Robot Laundry Machinery Sales, Div. Wolf Co.
 ROCCAL, germicide, Sterwin Chemicals, Inc.
 ROCKET, laundry presses, Troy Laundry Machinery Div., American Machine & Metals, Inc.
 ROCKET-PER, synthetic solvent drycleaning unit, Vic Cleaning Machine Co.
 ROCKWEAVE, laundry textiles, aprons, cover and filter cloth, double-face flannel, laundry nets, Callaway Mills, Inc.
 RODALON, non-staining disinfectant, Fairfield Laboratories
 RO-FLO, air compressors, vacuum pumps, Allis-Chalmers Mfg. Co.
 ROK-RIB, laundry nets, Whitehouse Products, Inc.
 ROLA-RUG, rug rolling and packaging machines, Lincoln Products, Inc.
 ROLLERVEYOR, roller conveyor, Mechanical Handling System, Inc.
 ROLL-ON-SEAL, gummed tape dispensers, Roll-on-Sealer Co.
 RONAFLEX, elastic synthetic tubing with woven metal wire cover, Ronaflex Tubing Co., Inc.
 RO-NOR, stain remover, H. Kohnstamm & Co., Inc.
 ROOFKOTER, roof material, Tropical Paint & Oil Co.
 ROOT BAGGER, garment bagger, Huebsch Div., American Laundry Machinery Co.
 ROSS, solvent coolers, heat exchangers, Kewanee-Ross Corp.
 ROTAIRE, conditioning tumbler, American Laundry Machinery Co.
 ROTARY, condensation meters, American District Steam Co., Inc.
 ROTARY, soot blower, Marion Machinery Foundry & Supply Co.
 ROTEX, drycleaning extractor, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
 ROTH, boiler feed units, pumps, Roy E. Roth Co.
 ROTO BRUSH, electric upholstery shampoo machine, Certified Chemical & Equipment Co.
 ROTO-KLEEN, filter, Bowser, Inc.
 ROTO-MATIC, rotating laundry process units, Unipress Co.
 ROUND "R," steel boiler, coal, oil, gas stoker, Kewanee Boiler Corp.
 ROUND THE BUTTON, shirt-ironing press pads, Resillo Co.
 ROYAL, brass safety pins, Risdon Mfg. Co.
 ROYAL, medium-titer, coco-tallow chip, neutral soap, Armour & Co.
 ROYAL, rubber hose, rubber belting, U. S. Rubber Co.
 ROYAL CALENDER, cylinder type flatwork ironer, American Laundry Machinery Co.
 ROYAL OAK, leather belting, Webb Belting & Supply Co.
 ROYAL PINE, soaps, Iowa Soap Co.
 ROYAL WORCESTER, lace leather, Graton & Knight Co.
 RP NO. 757, stain remover, H. Kohnstamm & Co., Inc.
 RUBBER BASE, primer sealer, Tropical Paint & Oil Co.
 RUBBER CITY, roofing materials, Rubber City Mfg. Co.
 RUBEROID, built-up roofing materials, Ruberoid Co.
 RUBINOFF, tags, certificates, guarantees and supplies, M. Rubinoff, Inc.
 RUGGLO, rug cleaning soap, Merson Products Co.
 RUG-IT, rug cleaning detergents, Certified Chemical & Equipment Co.
 RUG-O, rug and carpet soap, Davies-Young Soap Co.
 RUSCO, rubber belting, woven belting, press tape, Russell Mfg. Co.
 RUSKO, water conditioner, Wyandotte Chemicals Corp.
 RUST BAR, paint, rust preventative, Midland Paint & Varnish Co.
 RUST-E-LIM, rust remover, Johnson Chemical Industries, Inc.
 RUSTEX, sour, Hood Chemical Co., Inc., Crescent Div.
 RUSTEEZE, rust solvent, Hood Chemical Co., Inc., Crescent Div.
 RUSTGO, rust remover, A. L. Wilson Chemical Co.
 RUSTICK, rust remover, National Cleaners Chemical Mfg. Co.
 RUSTICON SS, rust preventative, Philadelphia Quartz Co.
 RUSTIKOTE, rust preventative, Tropical Paint & Oil Co.
 RUST RAIDER, boiler and heating system cleaner, Radiator Specialty Co.
 RUSTYTRASE, rust remover, Hachik Bleach Co.

S

- S-A, anti-sulfuric-acid valves, Lunkenheimer Co.
 S.E.B., wetcleaning soap, E. F. Drew & Co., Inc.
 S.I.S., roofing, Barrett Div., Allied Chemical & Dye Corp.
 S.M.A., high alumina firebrick, McLeod & Henry Co., Inc.
 SOH, low-pressure boiler, Titusville Iron Works Co., Div. Struthers Wells Corp.
 SP, high-pressure boiler, Titusville Iron Works Co., Div. Struthers Wells Corp.
 S-R, spotter for brown and yellow stains, Caled Products Co., Inc.
 SABIN, glove cleaning machines, Sabin Machine Co.
 SACO, speed reducers, Stephens-Adamson Mfg. Co.
 SACON, belt conveyor carriers, Stephen-Adamson Mfg. Co.
 SAFE CUTTERS, cord knife, Time Savers, Inc.
 SAFE-TIE ANCHORS, refractory anchors, Ramtite Co.
 SAFE-T-SOL, dry oil, paint and grease remover, Patek & Co.
 SAFE-T-THRIFT, safety solvent unit, Butler Mfg. Co.
 SAFETY, diapers, Sani-Top Co.
 SAFETY LINEN SOUR, sour, Diamond Alkali Co.
 SAF-AIR, ventilator, United Electric Motor Co.
 SAF-T-MARK, marking tags, Stry-Lenkoff & Co.
 SAGER SPREADERS, flatwork spreaders, M. A. Pocock
 'SAIRSET, air-setting bonding mortar, A. P. Green Fire Brick Co.
 SALVE-O-LIN, skin salve, Keystone Aniline & Chemical Co., Inc.
 SAMOSET, soap, Lewis National Corp.
 SAMSON, packing, U. S. Rubber Co.
 SAMSONITE, filter bags, feather bags, extractor covers, soap whips, starch whips, tumbler pads, Manitowoc Cotton Goods Mfg. Co.
 SANA-FILTER, low-pressure, filter-type soap, Huntington Laboratories, Inc.
 SANA-SIZE, sizing, Huntington Laboratories, Inc.
 SANEX, dry, neutral mothproofing agent for use in the wheel, Signal Chemical Mfg. Co., Inc.
 SANICO, drycleaning soap, Dello Products Co.
 SANI-SOUR, antiseptic, all-purpose sour, Standard Chemical Works Co.
 SANITEX, baskets, trucks, bags, C. R. Daniels, Inc.
 SANITONE, drycleaning process, Emery Industries, Inc.
 SANITONE MC, mothproof, Emery Industries, Inc.
 SANITONE SS, silk size, Emery Industries, Inc.
 SANITONE WK, water repellent, Emery Industries, Inc.
 SANI TOP, diaper cans, diaper pails, deodorants, Sani-Top Co.
 SANI-TYPE, heat reclaimers, Patterson-Kelley Co., Inc.
 SANI-WHITE, bleach, G. S. Robins & Co.
 SAPOTEX, soap compound, G. S. Robins & Co.
 SAPPHERE, stripper and stain remover, Lewis National Corp.
 SARCO, steam traps, temperature regulators, Sarco Co., Inc.
 SARCOCID, sour, Slater-Robbins Co., Inc.
 SARCO-CONCENTRATE, paint and grease remover, Slater-Robbins Co., Inc.
 SARCO-MIST, moth spray, Slater-Robbins Co., Inc.
 SARCOSTAT, motor-operated valve, Sarco Co., Inc.
 SARCO-SOL, paint and grease remover, Slater-Robbins Co., Inc.
 SARCO-TEX, wetcleaning detergent, Slater-Robbins Co., Inc.
 SATINETTE, combination starch, Keever Starch Co.
 SAV-A-LOAD, extractor covers, F. H. Bonn Co.
 SAVO, 92% powder soap, John T. Stanley Co., Inc.
 SAVONOL, wet spotter, Patek & Co.
 SAXMAYER, tying machines, National Bundle Tyer Co.
 SCALE-I-CATER, boiler compound, W. F. Johnson Products Co.
 SCALINA, boiler compound, quick scale remover, Rathbun Co.
 SCHAUB, boiler feed and condensation return systems, Fred H. Schaub Engineering Co., Inc.
 SCHRAMM, air compressors, Schramm, Inc.
 SCIENTIFIC, boiler water treatment, Scientific Boiler Water Conditioning Co.
 SCOTCH-MUND, boilers, Mund Boilers, Inc.
 SCOTSMAN, washers, Ayr-Mor Machinery Co., Inc.
 SCOTTIE, Jr., high-pressure riveted boilers, Kewanee Boiler Corp.
 SCODUREX, textile scouring, Essential Chemicals Co.
 SCRAM BLOOD, spotting agents, Warco Laboratories
 SCRUB, spot remover, Starr Soap & Chemical Co., Inc.
 SD-130, tumbler, drycleaning, Hoyt Mfg. Corp.
 SEABLU, blue, Speare Co.
 SEA FOAM, soap powder, Colgate-Palmolive Co.
 SEALED POWER, totally enclosed fan-cooled motors, Crocker-Wheeler Electric Mfg. Co., Div. Joshua Hendy Iron Works
 SEAL MASTER, ball bearings, Stephens-Adamson Mfg. Co.
 SEAL-O-SAN, enamel, Huntington Laboratories, Inc.
 SEAL SILICATE, silicate adhesive, Philadelphia Quartz Co.
 SEALTITE, liquid-tight electrical wiring conduit, American Brass Co., American Metal Hose Branch
 SEAMLEX, seamless flexible metal hose and tubing, Seamlex Co., Inc.
 S.E.B., CONCENTRATED, silk and wool soap, E. F. Drew & Co., Inc.
 SEC, synthetic drycleaning unit, Sec-O-Matic Corp., Div. International Projector Corp.
 SEC-CLEANIZED, drycleaning process, Sec-O-Matic Corp., Div. International Projector Corp.
 SECCO, dry water repellent, Patek & Co.
 SEC-O-MATIC, synthetic solvent drycleaning unit, Sec-O-Matic Corp., Div. International Projector Corp.
 SEC-O-MISER, solvent recovery unit, Sec-O-Matic Corp., Div. International Projector Corp.
 SECTOFUG, moth protection by fogging, Fumol Corp.
 SECURITY, marking pins, Risdon Mfg. Co.
 SECURITY A-1, lusterizing formula, fur glaze aerosol type, Security Fur Seal Co., Inc.
 SEE-SAFE, plastic storage and blanket bags, Mohl Mfg. Co.
 SELF-SEAL, adhesive shirt bands, National Paper Band Co.
 SELF-STICK, shirt bands, Phoenix Products Co.
 SELLERS, steam boilers, open return systems, Sellers Engineering Co.
 SEMI-STOD, cleaners' light naphtha, Anderson-Prichard Oil Corp.
 SENECA, soap, Lewis National Corp.
 SENIOR, lubricators, Lunkenheimer Co.
 SENSIMATIC, accounting machines, Burroughs Adding Machine Co.
 SENSITROL, relay, Weston Electrical Instrument Corp.
 SENTINEL, oil cup, Lunkenheimer Co.
 SEPTO SOUR, sour, Diamond Alkali Co.
 SEQUESTRENE, water softener, Alrose Chemical Co.
 SERDEX, gauges, solvent humidity control, Serdex & Co.
 SERVIS RECORDER, time and truck recorders, Service Recorder Co.
 SESQUILATE, laundry detergent, Diamond Alkali Co.
 1707, blue, H. Kohnstamm & Co., Inc.
 727, curtain and blanket wetcleaning product for wheel washing, Caled Products Co., Inc.
 722, rug and carpet soap, Caled Products Co., Inc.
 SHAMROCK, canvas baskets, hampers, trucks, Meese, Inc.
 SHAW, collar edger, Reed Mfg. Co.
 SHELDITE, waterproof belt cement, I. B. Williams & Sons
 SHEEN-TEX, synthetic rug cleaning soap, Blenco Co.
 SHELBY, tubing, National Tube Co.
 SHELF-TYPE, trucks, Market Forge Co.
 SHELL, naphtha, stain remover, Shell Oil Co., Inc.
 SHELL-LESS, washers, U. S. Hoffman Machinery Corp.
 SHELL-SOL, naphtha, petroleum solvent, Shell Oil Co., Inc.
 SHELL TOX, insecticide, Shell Oil Co., Inc.
 SHERWIN-WILLIAMS, paints, varnishes, enamels, lacquers for maintenance purposes, Sherwin-Williams Co.
 SHIELDS, drycleaning unit, Shields Engineering & Mfg. Co.
 SHINE BRIGHT, liquid scrubbing soap, Hild Floor Machine Co.
 SHIPSAFE, bags, Lanning Bag & Specialty Co.
 SHIRLAN, textile fungicides, E. I. du Pont de Nemours & Co., Inc.
 SHIRTAINER, shirt packaging, Loroco Industries, Inc.
 SHIRT BIN, for conveying shirts, J. W. Steele & Co.
 SHIRT CHUTE, metal chute for shirt handling, Rosenthal Mfg. Co.
 SHIRT PAX, combination shirt board, collar support and box, Package Masters, Inc.
 SHIRT PAX, shirt bag, Time Savers, Inc.
 SHIRTRANSPORT, shirt transporter, G. H. Bishop Co.
 SHIRT TRUX, steel shirt bins, Time Savers, Inc.
 SHIRT-V-LOPE, printed cellophane shirt bag, Lee Converters, Inc.
 SHOO, odor destroyer, Caled Products Co., Inc.
 SHOWERFEED, floor, rug and carpet scrubbing machines, Hild Floor Machine Co.
 SHOWER-PRUF, water repellent, Adco, Inc.
 SHCW-MASTER, lighting unit to accent displays by flood or spotlight, Revere Electric Mfg. Co.
 SHREDDED, 88% flake soap, John T. Stanley Co., Inc.
 SIBUR, mothproofing agent, Sibur Mothproofing Co.
 SIBUR AISLE, truck bodies, Montpelier Mfg. Co.
 SIEBRING, electromatic steam boiler, Siebring Mfg. Co.
 SIGNAL, flameproof, insecticide, Signal Chemical Mfg. Co.
 SILENT HUNTINGTON, scrubbing and polishing floor machine, Huntington Laboratories, Inc.
 SILENT SERF, portable vacuum cleaner, Certified Chemical & Equipment Co.
 SIL-EX, black metal washer, Gross Machinery Co., Inc.
 SILICON, spun nylon press cover, Phoenix Supply Co.
 SILIC-O-NECTIC, time delay relays, Heinemann Electric Co.
 SILKANWOOL, silk and wool soap, North Coast Chemical & Soap Works
 SILTEX, FLAKES, medium titer soap, Allen B. Wisley Co.
 SILVER-CREST, washers, U. S. Hoffman Machinery Corp.
 SILVER-KOTE, lacquer, Pittsburgh Waterproof Co.
 SILVER LABEL, hatters equipment and supplies, National Hatters Supply Co.
 SILVER LEAF, nets, Southern Mills, Inc.
 SILVERLINK, roller chains, sprockets, Link-Belt Co.
 SILVERSEAL, colored specialty tapes, Gummed Tape & Devices Co.
 SILVERSHINE, galvanized garment hangers, U. S. Metals Corp.
 SILVERSTREAK, silent chain drives, Link-Belt Co.
 SILVERTEEN, wire hangers, Academy Hanger Co., Inc.
 SILVERTINE, straight, safety pins, Vail Mfg. Co.
 SILVERTOP, steam trap, V. D. Anderson Co.
 SIMMONS, cuff and tag tacking machines, Simmons Machine Co.
 SIMMONS ELECTRO-MEND, mending and patching machines, Simmons Machine Co.
 SIMPLEX, break powder, H. Kohnstamm & Co., Inc.
 SIMPLEX, laundry tumblers, extractors and washers, flatwork ironers, drycleaning tumblers, Ironer Div., Speed Queen Corp.
 SIMPLEX, office machines, time recorders, Simplex Time Recorder Co.
 SIMPLEX, oil burners, Simplex Oil Heating Corp.
 SINGER, sewing machines, accessories, Singer Sewing Machine Co.
 SINGLESCIS, filter cloth blankets, Multi-Metal Wire Cloth Co., Inc.
 SIPON, wetcleaning detergent, American Alcolac Corp.
 SIRCO, tropical nut shells for fur cleaning, Bernard Sirota Co.
 SIRCO FUME, liquid fumigating gas, Bernard Sirota Co.
 6-B, automatic synthetic drycleaning unit, Prosperity Co., Inc.
 6-T, benzine soap, Midland Color & Chemical Co.
 630, paste type drycleaning soaps for caustic or distillation clarification systems, Caled Products Co., Inc.
 60 SECOND, solvent, Superior Products Co.
 SIZE, water-soluble size finish, Davies-Young Co., Inc.
 SIZE-ALL, liquid sizing, Keystone Aniline & Chemical Co., Inc.
 SIZE-ALL, permanent sizing, Benda Products, Inc.
 SIZEOFF, enzymic desizing agent, Takamine Laboratory, Inc.
 SIZ-IN, hat sizing, Greenville Chemical Co.
 SKELLYSOLVE, petroleum solvents, Skelly Oil Co.
 SKIRT KLIPS, skirt clips, West Side Corp.
 SKORTEX, wetcleaning compound, Wyandotte Chemicals Corp.
 SKY ROCKET, extractors, Hammond Laundry-Cleaning Machinery Co.
 SKYTINT, liquid laundry blue, Kliegman Bros., Inc.
 SLACKS SAKS, trouser bags, Phoenix Products Co.
 SLICKER, brushes, American Pressboard Co., Inc.
 SLIP EASY BRAND, motor oil, boiler and roofing materials, Riverside Chemical Co., Inc.
 SLIP-IN, collar protectors, Phoenix Products Co.
 SLIP-KNOT, belt dressing, Webb Belting & Supply Co.
 SLIP-NOT, special tanned leather belting, Milwaukee Leather Belting Co.
 SLIP-ON, hanger shields, Academy Paper Box Co.
 SLIP-ON, hanger shields, Larton Products Co., Inc.
 SLIP-ON, sleeve press covers, F. H. Bonn Co.
 SL-230, tumbler, laundry, rug & carpet, Hoyt Mfg. Corp.
 SLYDE-OUT, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.
 SM-1, drycleaning systems, Western Laundry Machinery Co.
 SMASH, break powder, Minnesota Chemical Co.
 SMITH'S, collar, cuff and neckband replacements, Gilman B. Smith Co., Inc.
 SMOOTHTEX, metallic filter cloth, Multi-Metal Wire Cloth Co., Inc.
 SMOOTH-TEX, press cloth, feed ribbons, Pittsburgh Waterproof Co.
 SNAG-PRUF, zippers, Snag-Fur Corp.
 SNAPON, trouser guards, Tillery Container Co.
 SNAP-TITE, cover-cloth clamp, J. W. Steele & Co.
 SNAPPY, laundry marking pens, Snap Back Co., Inc.
 SNO MUD CHIEF, truck tires, Mohawk Rubber Co.
 SNOWFINE CRYSTALS, alkali cleanser, Solvay Process Div., Allied Chemical & Dye Corp.
 SNOWFLAKE CRYSTALS, sodium sesquicarbonate, Solvay Process Div., Allied Chemical & Dye Corp.

SOAP-O-MATIC, soap dispenser, Hopkins Equipment Co.
SOAPRITE, soap, Lewis National Corp.
SOFTTEE, pressure and vacuum filters, Hammond Laundry-Cleaning Machinery Co.
SOFTEY, diapers, Sani-Top Co.
SO-GO, soap, wetcleaning, A. L. Wilson Chemical Co.
SOILSORB, rag and overall detergent, Cowles Chemical Co.
SO-KLEEN PENETRANT, drycleaning detergent, Merson Products Co.
SO KLEEN SY, synthetic drycleaning soap, Merson Products Co.
SOLARINSE, optical whitener, Carlton Chemical Co., Inc.
SOLARSUDS, detergent, Carlton Chemical Co., Inc.
SOLBLUE, blue, Speare Co.
SOL BREAK, break powder, Lewis National Corp.
SOLBUMEN, spotting agent, Eaton Chemical & Dyestuff Co.
SOLGON, paint remover, Lewis National Corp.
SOLID CURB, laundry, drycleaning extractors, American Laundry Machinery Co.
SOLIT-AYR, washers, tumblers, extractors, Ayr-Mor Machinery Co., Inc.
SOLIVE, soaps, Lewis National Corp.
SOLOZONE, sodium peroxide, E. I. du Pont de Nemours & Co., Inc.
SOL-SIL-ATE, alkali soap builder, Lewis National Corp.
SOL-SIL-ATE, special alkali compounds, Speare Co.
SOL SOUR, sour, Lewis National Corp.
SOL SUDS, soap, Lewis National Corp.
SOLTEX, drycleaning detergent, Riverside Mfg. Co.
SOLUBLE PINE OIL S-189, penetrant, Jacques Wolf & Co.
SOLUBON, textile dyeing assistants, American Aniline Products, Inc.
SOL-U-LUBE, neutral lubricant, Huntington Laboratories, Inc.
SOL-U-NESE, dry and wet spotter, Huntington Laboratories, Inc.
SOL-U SOAP, drycleaning soap, Huntington Laboratories, Inc.
SOLV-AIRE, synthetic solvent recovery unit, New England Trawler Equipment Co.
SOLVATONE, solvent, Carbide & Carbon Chemical Corp., Unit of Union Carbide & Carbon Corp.
SOLVENIZED, tire rebuilding and repair material, Mohawk Rubber Co.
SOLVENT SAVER, solvent recovery unit, Vic Cleaning Machine Co.
SOLVENT-STILL, distills synthetic solvents, Dettrex Corp.
SOLVEX, spotting agent, Spix Products Co.
SOL-VIC, drycleaning unit for use with petroleum solvent, Vic Cleaning Machine Co.
SOLVINK, ink, paint, rust, blood stain remover, Greenville Chemical Co.
SOLVINOL, spotting soap, Keystone Aniline & Chemical Co., Inc.
SOLV-O-MARK, indelible marking pen, Mark-O Corp.
SOLVO-MISER, solvent recovery unit, Hoyt Mfg. Corp.
SOLVO-RUST, sour, Thompson-Hayward Chemical Co.
SOLZYME, digestive agent, Lewis National Corp.
SOME'S, uniforms, badges, embroidered emblems, Some's Terminal Uniforms
SONOMOR, safety and straight pins, wire garment hangers, William Prym, Inc.
SORBIT, wetting agent, Alrose Chemical Co.
SOURFLO, laundry sour, Wyandotte Chemicals Corp.
SOURTEC, sour, Wyandotte Chemicals Corp.
SOUTHDOWN, diapers, George Wood, Sons & Co.
SOUTHEASTERN, laundry textiles, Southeastern Textile Co.
SOUTHERN COLONEL, sponge press pads, Southern Mills, Inc.
SOVASOL 5, Stoddard petroleum solvent, Socony-Vacuum Oil Co., Inc.
SOVASOL 140, petroleum safety solvent, Socony-Vacuum Oil Co., Inc.
SOYDOL, soap concentrate, A. F. Wolke Co.
SPACEMASTER, stacker, Lewis-Shepard Products, Inc.
SPAN, emulsifier, wetting agent, Industrial Chemicals Dept. (Atlas Powder Co.)
SPARKETTE, detergent, Pennsylvania Salt Mfg. Co.
SPARKLE, chlorophyll deodorant concentrate, American Mopproofing Co.
SPARKLE, drycleaning soap, Starr Soap & Chemical Co., Inc.
SPARKLEAN, drycleaning detergent, Cidex Corp.
SPARKOLOR, detergent emulsifier, Cidex Corp.
SPARTAN, flat and block leather V belt, leather packings, Graton & Knight Co.
SPARTAN, nets, Egan Cotton Mills
SPEAR'S, blues, Lewis National Corp.
SPECIAL EXTRACTOR, leather belt, Webb Belting & Supply Co.
SPECIAL FINISH, starch, A. E. Staley Mfg. Co.
SPECIAL IRONER OIL, cleans, polishes and lubricates flatwork ironers, College Chemical Co.
SPECIAL PER, hot synthetic drycleaning unit, Vic Cleaning Machine Co.
SPECIALTY, garment bagging device, Specialty Devices Co.

SPEED, brass fasteners, erasing shields, Speed Products Co., Inc.
SPEED-BAGGER, bagging device, Para-Lux Products Co.
SPEEDEC, drying cabinets, Hammond Laundry-Cleaning Machinery Co.
SPEE-DEE, paint and grease remover, Adco, Inc.
SPEDEX, extractor, Zephyr Laundry Machinery Co.
SPEED-FIBRE, day tags, Market Industries Co., Inc.
SPEEDSETS, sales and record forms, Moore Business Forms, Inc.
SPEED KING, tumblers, Hammond Laundry-Cleaning Machinery Co.
SPEEDLIFT, trucks, Lewis-Shepard Products, Inc.
SPEEDMASTER, rug scrubber, Certified Chemical & Equipment Co.
SPEEDMASTER, stackers and portable elevators, Lewis-Shepard Products, Inc.
SPEEDMATIC, compression tacker, Speed Products Co., Inc.
SPEEDPLUS, filter powder, Dicalite Div., Great Lakes Carbon Corp.
SPEED SET, variable numbering machines, American Numbering Machine Co.
SPEEDS-IT, prespotter, G & G Chemical Co.
SPEEDSTER, extractor, washers, Prosperity Co., Inc.
SPEEDUX DIPMASTER, water-repellent dip tanks, Devere Co.
SPEED-VAN, delivery trucks, Linn Coach & Truck Div., Great American Industries, Inc.
SPEEDWAY, pressboard covers, folders, Speed Products Co., Inc.
SPEEDWAY, all-purpose spray type spotter and stain remover, Speedway Chemical Co.
SPEEDWAY, washer, tumblers, starch cookers, truck tubs, Industrial Laundry Machinery Co., Inc.
SPEEDY, washers, driers, water heaters, drycleaning machines, Speedy Washer Mfg. Co.
SPEEDYLECTRIC, steam generators, Livingstone Engineering Corp.
SPEEDY-SET, automatic lock bottom carton, Cornell Paperboard Products Co.
SPHERO, iron ball valves, Fairbanks Co.
SPHINX, starch, Arabol Mfg. Co.
SPIRO, steam hot water heaters and nurseries, David Stout & Sons
SPIX, prespotter, drycleaning and suede soap, hand cream, Spix Products Co.
SPORTEES, collar supports, Time Savers, Inc.
SPORTFOLIOS, sport shirt package, Package Masters, Inc.
SPORT PAX, window envelope for packaging of sport shirts, Time Savers, Inc.
SPORTRIGHT, sport-shirt folding board, Key-Tag Checking System Co.
SPORT SHIRT, press unit, American Laundry Machinery Co.
SPORTSTER, shirt folder, Time Savers, Inc.
SPOTLESS, paste drycleaning soap, National Cleaners Chemical Mfg. Co.
SPOTLESS CHLOROFORM, substitute for chloroform, Slater-Robbins Co., Inc.
SPOTLESS SIZE, synthetic sizing, Slater-Robbins Co., Inc.
SPOTOUT, spotting aids, Kennedy Products Co.
SPOTS-GO, spotting agent, paint, oil and grease remover, A. L. Wilson Chemical Co.
SPOTTERS FRIEND, wet spotter, Smith Bros. Co.
SPOT-X, prespotter, Huntington Laboratories, Inc.
SPRAY DREST, liquid spray finish for suedes or smooth leathers, Caled Products Co., Inc.
SPRAY-MASTER, spray gun, Cleaners Specialties Supply Co.
SPRAY MIX, coating refractory, Mexico Refractories Co.
SPUNYLON, nylon net, Carson Textile Co., Inc.
SPURT, blood remover, Patek & Co.
SQUARE-HEAT, steel boiler, coal, oil, gas stoker, Kewanee Boiler Corp.
SQUAREWAY, curtain and blanket stretchers, Hopkins Equipment Co.
SQUIRES, reducing and regulating valves, C. E. Squires Co.
S-R, stain remover, Caled Products Co., Inc.
SS COMPOUND, washing compounds, Lewis National Corp.
STABLON, textile dyeing assistants, American Aniline Products, Inc.
STACK-EM, hanger rack, Time Savers, Inc.
STACKRITE, flatwork stacker, American Laundry Machinery Co.
STA-DAMP, plastic basket liners, Zuckerberg Co.
STADLUBE, starch lubricant, Stadham Co., Inc.
STAD-SPUN, spun treated nylon cloth, Stadham Co., Inc.
STADTAFE, flatwork ironer tape, Stadham Co., Inc.
STAD-TEX, treated nylon cloth, Stadham Co., Inc.
STADWAX, ironer oil, powdered wax, Stadham Co., Inc.
STAG BRAND, press covers, aprons, bags, feed ribbons, Pittsburgh Waterproof Co.
STAG, spotting aids, G & G Chemical Co.
STAIN-A-WAY, oxidized-stain remover, Warco Laboratories
STAINEX, laundry sour, Standard Chemical Works Co.
STAIN-O-GO, spot remover, Dello Products Co.
STAZ, collar supports, Time Savers, Inc.
STAMPAGRAPH, indelible hot-iron transfers, Stampagraph Co., Inc.

STAMPATCHI, cloth mender, StamPatch Magic Mender
STANCO, blues, soars, Standard Chemical Works Co.
STANDARD, extractor, Fletcher Works, Inc.
STANDARD, laundry, drycleaning machinery, Standard Laundry & Cleaning Machinery Co.
STANDARD, pin carrier, Keyes-Davis Co.
STANDARD, press pads, Resillo Co.
STANDARD, record system, Standard Register Co.
STANDARD, shirt unit, Prosperity Co., Inc.
STANDARD, valves, W. M. Chace Co.
STANDARD FLAKE SOAP, NO. 1, soap, Standard Soap Co. of Camden
STANDARD KING, net pins, Keyes-Davis Co.
STANDATROL, air-operated relay, Bailey Meter Co.
STANDCO, speed indicators, tachometers, Herman H. Sticht Co., Inc.
STAND-EZE, floor mat, Colonial Rubber Co.
STAN-O-MATIC, petroleum and synthetic drycleaning units; petroleum washer-extractor combination, Standard Laundry & Cleaning Machinery Co., Inc.
STANORUST, rust preventative, Standard Oil Co.
STANOX, hot-water built soap, John T. Stanley Co., Inc.
STANSO, cleaning chemicals, detergents, Standard Soap Co. of Camden
STANSO TEX OIL, sulfonated oils, turkey red oil, Standard Soap Co. of Camden
STANTEK, press and cover cloth, John T. Stanley Co., Inc.
STA-NU PROCESS, fabric-renewing compound introduced through steam line, Sta-Nu Corp.
STAPEX, starch, A. E. Staley Mfg. Co.
STAPL-CITE, marking tags, Liberty Marking Tag Co., Inc.
STA-PUT, lubricating oils, E. F. Houghton & Co.
STARCHTEX, starch lubricant, Lewis National Corp.
STAR DOWN, diapers, George Wood, Sons & Co.
STAR-RITE, collar supports, shoulder shields, trouser guards, tie holders, industrial aprons, Hodge Farwell & Co.
STARR-BRITE, wetcleaning soap, Starr Soap & Chemical Co.
STARR-100, drycleaning soap, Starr Soap & Chemical Co.
STAR SERVICE, wire hangers, Star Service Hanger Div., L. A. Young Spring & Wire Corp.
STARTEX, break compound, H. Kohnstamm & Co., Inc.
STATICOL, drycleaning soap, R. R. Street & Co., Inc.
STAY-PUT, adhesive collar stays, Story Mfg. Co.
STAZUP, collar supports, Alfred J. Brooks
STEAM-AIRE, garment finishers, Pantex Mfg. Corp.
STEAMMAIRE, unit heater, Young Radiator Co.
STEAMMASTER, boilers, return systems, Steamaster Automatic Boiler Co.
STEAM BOILER PLANT, boilers, Eclipse Fuel Engineering Co.
STEAM-FLEX, press connectors, Flexonics Corp.
STEAM FLOW, pads, Resillo Co.
STEAM FLOW, rubber press pad, Newhouse Co.
STEAMIN STEVE, portable electric steam generator, Electric Steam Boiler Sales, Div. Wolf Co.
STEAM-PAK, packaged steam generators, York-ShIPLEY, Inc.
STEAMTITE, flexible metal connector for laundry and pressing machines, American Brass Co., American Metal Hose Branch
STEEL-BILT, extractors, washers, B & G Machinery Co., Inc.
STEELCOTE, paint, varnishes, waterproofing, Steelcote Mfg. Co.
STEELE BIN, shirt carrier, J. W. Steele & Co.
STEELE GLIDER IRON, electric iron, J. W. Steele & Co.
STEELELOX, self-locking shirt band, J. W. Steele & Co.
STEEM, neutral lubricant for steam spotting, Caled Products Co., Inc.
STEEM-ATIC, vertical water tube boiler, Kisco Boiler & Engineering Co.
STEIGLER MARKOGRAPH, marking machine, George Steigler Co.
STEIN, add-a-section finishers' tables, Lawrence M. Stein Co.
STEIN, cuff tacker, Stein Specialty Co.
STEINER, paper towels, soap dispensers, toilet soap, Steiner Sales Co.
STELLAR, filter, Inflico, Inc.
STEMALLOY, patented silicon bronze alloy, Lunkenheimer Co.
STERI-CHLOR, deodorizer and germicide, Wyandotte Chemicals Corp.
STERICLEAN, moth repellent sour, Johnson Chemical Industries, Inc.
STERICO, pumps, traps, controls, regulators, Sterling, Inc.
STERLING, corn starch, Kever Starch Co.
STERLING, pumps, boiler, Sterling Engineering & Mfg. Co.
STERLING, salt, salt tablets, dispensers, International Salt Co.
STEVEDORE, JR., conveyor, Rapids-Standard Co., Inc.
STEVENSON, automatic counting machine, Stevenson Co.
STEWART-WARNER, instruments, Stewart-Warner Corp., Alomite Corp.

TRADE NAMES

STIK-TITE, belt cement, Milwaukee Leather Belting Co.
STILLSON-GENUINE, wrench, Walworth Co.
STILL-TEMP, still temperature control, Aquatrol, Inc. (Specialties Div.)
STOD-SOL, Stoddard solvent, Anderson-Prichard Oil Corp.
STONE, package boiler, built-in return system, Stone Boiler Equipment Corp.
STONEWALL, fans, Stonewall Sales Co.
STORAGEMASTER, vault-conditioning equipment, Walter Haertel Co.
STOVER, water softeners, pressure filters, Stover Water Softener Co.
STOWE STOKERS, industrial stokers, Johnson & Jennings Co.
STRATE, special drycleaning detergent, Spix Products Co.
STREAMLINE, chest-type flatwork ironer, American Laundry Machinery Co.
STREAMLINED LABELORS, mustering machine, Better Packages, Inc.
STREAMLINER, continuous towel cabinet, Steiner Sales Co.
STREPENE, stripper, R. R. Street & Co., Inc.
STRETTEX, drycleaning soap for chlorinated solvents, R. R. Street & Co., Inc.
STRESSITE, solid bronze machine parts, Amplex Div., Chrysler Corp.
STRETCH-ALL, garment stretchers, tie forms, sleeve finishing boards, sleeve forms, Jack Hodges Specialty Co.
STRIKE'S, hydraulic extractor, Strike's Laundry Machinery, Inc.
STRIPALENO, stripper, Keystone Aniline & Chemical Co., Inc.
STRIPLEX, strippers, Package Chemical Co., Inc.
STRIP INK, ink remover, Slater-Robbins Co., Inc.
STRIPMASTER, wire strippers, Ideal Industries, Inc.
STRIPP, powdered stripper and bleach, G & G Chemical Co.
STRIPTEX, strippers, Package Chemical Co., Inc.
STRIPPIT, stain remover, stripper, Kliegman Bros., Inc.
STRIPPOLYTE, dye remover, Slater-Robbins Co., Inc.
STRIP-STICK, stripper, National Cleaners Chemical Mfg. Co.
STRIPTEX, powdered stripper, Hood Chemical Co., Inc. Crescent Div.
STROMBERG, time clocks, Stromberg Time Corp.
STRONG, steam specialties, Strong, Carlisle & Hammond Co.
STURDI-BILT, metal laundry washer, Jensen Mfg. Co.
STYLOGRAMS, simulated paper handkerchief printed with sales message, Nashua Gummed & Coated Paper Co.
SUBALOX, lead and aluminum glimmer paint, Subox, Inc.
SUBMERSON, gas/oil boilers, gas/oil burners, gas/oil water heaters, David Stout & Sons
SUBOX, anti-corrosive paint, Subox, Inc.
SUDS, paste drycleaning soap, Adco, Inc.
SUDSO, soap builder, Washine National Sands, Inc.
SUDSRITE, high-titer built soap, New South Mfg. Co., Inc.
SUDSYN, sudsy synthetic solvent, E. F. Drew & Co., Inc.
SUEDECARE, leather cleaning process, Suede-care, Inc.
SUEDE KING, leather and suede cleaning method, Suede King
SUITADDRESS, hangers, Cleaners Hanger Co.
SULFACO, wetcleaner, R. R. Street & Co., Inc.
SULFOSUDS, soapless soap, Merson Products Co.
SULFSTAD, soap, Stadham Co., Inc.
SULPHOGEN, spotting compound, Riverside Mfg. Co.
SULPHOTEX, detergent, soaps, Keystone Aniline & Chemical Co., Inc.
SULVA, soapless wet cleaner, G & G Chemical Co.
SUN, paste filter soap, Adco, Inc.
SUNBEAM, automatic clothes-lifting basket liner, Cleaners Specialties Supplies Co.
SUNBEAM, blue, Spare Co.
SUN FLUORESCENT, lighting fixtures, Sun Fluorescent Electric Co.
SUN-PROOF, paint, Pittsburgh Plate Glass Co., Paint Div.
SUNSET, blueing and color remover, stripper, North American Dye Corp.
SUNSET DYTINT, dye for use in washing machines, North American Dye Corp.
SUNSET DYEWHITE, whitener for use in washing machines, North American Dye Corp.
SUNSHINE, tie-forms, Sunshine Necktie Forms
SUPER, laundry machinery, Super Laundry Machinery Co., Div. St. Joe Machines, Inc.
SUPER ALKALI 60, alkali compound, Solvay Process Div., Allied Chemical & Dye Corp.
SUPERBELT, leather belting, Philadelphia Belting Co.
SUPERBILD, soap builder, Solvay Process Div., Allied Chemical & Dye Corp.
SUPER CHIEF, truck tires, tire repair material, Mohawk Rubber Co.
SUPERCHLOR, bleach, Patterson Laboratories, Inc.
SUPER-CLEAR, rust-removing soap, Johnson Chemical Industries, Inc.
SUPER DETERGENT, detergent-type drycleaning soap, National Cleaners Chemical Mfg. Co.
SUPER DRY-O-MATIC, signal and alarm control for tumblers, Rosenthal Mfg. Co.

SUPER-ELCONITE, high-capacity greensand zeolite, Elgin-Rehite, Inc., Div. Elgin Softener Corp.
SUPEREX, sheet block and pipe insulations, Johns-Manville
SUPERFINE, laundry starch, Washine National Sands, Inc.
SUPER FURNAS-CRETE, castable refractory, Mexico Refractories Co.
SUPERGAUGE, gauges, U. S. Gauge Div., American Machine & Metals, Inc.
SUPER HIDING, interior white, U. S. Gutta Percha Paint Co.
SUPER-HILO, powder, built soda soap, Armour & Co.
SUPER HILOSET, temperature bonding mortar, Mexico Refractories Co.
SUPER ILLUMINATORS, incandescent lighting equipment, Edwin F. Guth Co.
SUPER-JET, built soap, soda and nonionic synthetic, Armour & Co.
SUPERIOR, crush-proof sorting hooks, list traps, V & W Equipment Co.
SUPERIOR, marking machines, Textile Machinery Co., Inc.
SUPERIOR, regulator, thermostat, trycock, water gauge valve, steam valve, Superior Controls Co., Inc.
SUPERIOR, rubber-tired wheels and casters, Jarvis & Jarvis, Inc.
SUPERIOR, rug cleaning machinery and accessories, Superior Rug Machinery Co.
SUPERIOR, steam generators, Superior Combustion Industries, Inc.
SUPERKLEEN, laundry alkali, Washine National Sands, Inc.
SUPER-MATIC, boilers, Eclipse Fuel Engineering Co.
SUPER-MERCURY, extractors, Troy Laundry Machinery Div., American Machine & Metals, Inc.
SUPER MONO-FIBRIK, plastic firebrick, Mexico Refractories Co.
SUPER MULTIFLEX, calcium carbonate, Diamond Alkali Co.
SUPER OILITE, ferrous-base lubricating bearings, Amplex Div., Chrysler Corp.
SUPER ORTH, anhydrous orthosilicate, Washine National Sands, Inc.
SUPERPACKING, leather packings, Philadelphia Belting Co.
SUPER-PLASTIC, refractory materials, A. P. Green Fire Brick Co.
SUPER PURGO, soap builder, Minnesota Chemical Co.
SUPER SERVICE, press and ironer pads and padding, Progressive Textile Mfg. Co.
SUPER SHREN, alkali cleanser, Solvay Process Div., Allied Chemical & Dye Corp.
SUPERSILICATE, detergent, Diamond Alkali Co.
SUPER SILVERTOP, steam traps, strainers, traps, V. D. Anderson Co.
SUPER-SOL, prespotter, National Cleaners Chemical Mfg. Co.
SUPER-SALTEX, drycleaning detergent, Riverside Mfg. Co.
SUPER-SPEED, drycleaning tumbler, American Laundry Machinery Co.
SUPER STEEL, pins, safety pins, William Prym, Inc.
SUPER SYLON, ironer, American Laundry Machinery Co.
SUPER-TEX, detergent, Nu-Pro Mfg. Co.
SUPER-VAC, rug cleaning suction machine, American Laundry Machinery Co.
SUPER-WEAR, press covers, Gustin-Kramer Co.
SUPER X, break powder, Spare Co.
SUPER-ZARMO, air-driven laundry presses, American Laundry Machinery Co.
SUPER-ZARMOETTE, air-driven laundry presses, American Laundry Machinery Co.
SUPER-ZORIC, drycleaning unit, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
SUPREME, laundry starch, Clinton Foods Inc.
SUPREME, water softeners and filters, Bruner Corp.
SURE-FLUD, ironer wax, Johnson Chemical Industries, Inc.
SURE-GRIP, V-groove sheaves, flat belt pulleys, rubber V-belts, T. B. Wood's Sons Co.
SURE-HOLD, paper specialties, wrappers, Sure-Hold Div., Nashua Gummed & Coated Paper Co.
SURELOC, aluminum collar and cuff fasteners, Sureloc Paper Clip Co.
SURE-RETURN, condensation pumps, Chicago Pump Co.
SURE-RINSE, rinsing aid, Johnson Chemical Industries, Inc.
SURFADYNE, textile leveler, Essential Chemicals Co.
SURFALUX, resin emulsion paint, Vita-Var Corp.
SURFAX, wetting agent, E. F. Houghton & Co.
SURFACO SHIELD, silicone type colorless water repellent, Surface Protection Corp.
SUREX, calcium carbonate, Diamond Alkali Co.
SURFEX MM, calcium carbonate, Diamond Alkali Co.
SUSPENSO, calcium carbonate, Diamond Alkali Co.
SUSSMAN, steam iron, Automatic Steam Products Corp.
SUZIE-Q, garment finisher and fabric conditioner, Excelsior Machinery Co.
SWAGelok, reducer fitting for tubing, Crawford Fitting Co.

SWAN, valves, Klipfel Mfg. Co.
SWANEE, cover duck, Minnesota Chemical Co.
SWANSDOWN, calcium carbonate, Diamond Alkali Co.
SWEETHEART, franchised home linen rental service, advertising materials, Linen Suppliers Advertising Corp.
SWIFT, soaps, Swift's Technical Laundry Service Div.
SWINGLINE, staples, staplers, Speed Products Co., Inc.
SWIVELoader, box or car loaders, Stephens-Adamson Mfg. Co.
SWIV-O-HOOK, hangers, Garment Hanger Co.
SYLON, chest-type flatwork ironer, American Laundry Machinery Co.
SYLVANIA, cellophane, Sylvania Div., American Viscose Corp.
SYNASOL, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
SYNCHRO-METER, electric telemeter, Bailey Meter Co.
SYNCHRO-VALVE, diaphragm control valve, Bristol Co.
SYNDEET, insecticide, U. S. Rubber Co.
SYNDET, synthetic detergent, West Side Corp.
SYNFLEX, outside and interior enamel, Midland Paint & Varnish Co.
SYN-KLEEN, synthetic detergent, G. S. Robins & Co.
SYNTERGE, drycleaning soap for chlorinated solvents, Raychem Products Co.
SYNSO, synthetic drycleaning soap, Nu-Pro Mfg. Co.
SYNSUDS, soap, H. Kohnstamm & Co., Inc.
SYN-SUDS, synthetic detergent, G. S. Robins & Co.
SYNSUDS, synthetic soap powder, Trico Chemical Div., Tri-State Equipment Co.
SYNTHEAL, liquid filter soap, National Cleaners Chemical Mfg. Co.
SYNTHESOL-100, drycleaning soap for synthetic solvent, Patek & Co.
SYNTHITE, zeolite, Hungerford & Terry, Inc.
SYNTHO, soap for chlorinated solvents, National Cleaners Chemical Mfg. Co.
SYNTHO-SAVER, solvent recovery unit, Detrex Corp.
SYNTHO SUDS, synthetic soap chips, West Side Corp.
SY-PECTRANT, drycleaning detergent, Merson Products Co.

T

TDL, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
TABASCO, water heaters, Kewanee Boiler Corp.
TACO, heaters, condensers, hot-water systems, Taco Heaters, Inc.
TAD, insecticides, desodorants, Tad Chemical Co., Div. Acme Industrial Compounds Corp.
TAD, tags, Boston Clip & Tag Co.
TAG-A-DAY, laundry marking tags and pins, Boston Clip & Tag Co.
TAGGER, sewing machine for tagging, Chandler Machine Co.
TAG-O-ELECTRIC, makes marks and attaches tags, Textile Marking Machine Co., Inc.
TAG-O-MATIC, tag making and marking machine, Textile Marking Machine Co., Inc.
TAHARA, silver burnishing machine, American Laundry Machinery Co.
TAHOE, laundry blue, Patek & Co.
TAKALAB, concentrated enzymic digestant, Takamine Laboratory, Inc.
TAKARA-HUKS, drycleaning specialty for cleaning drapes with hooks attached, Take-Care Mfg. & Sales Co.
TAKIMERSE, enzymic digestant for bath, Takamine Laboratory, Inc.
TALASE, desizing agent, Takamine Laboratory, Inc.
TALLY, hand counter, Denominator Co., Inc.
TALK-INK, ink remover, Package Chemical Co., Inc.
TANSOL, tannin stain remover, Greenville Chemical Co., Inc.
TAN-X, semi-wet stain remover, National Cleaners Chemical Mfg. Co.
TAQUET, tachometer, Herman H. Sticht Co., Inc.
TARBONIS, protective skin cream, Tarbonis Co.
TARGO, tar remover, A. L. Wilson Chemical Co.
TASCO, alkali (soap builder), Lewis National Corp.
TASCO TINT, blue, Lewis National Corp.
TAYLOR, stokers, American Engineering Co.
TECHNICLEAN, drycleaning soap, Fry Bros. Co.
TEJAX, valve indicator, indicating handwheels, Tejax Engineering Corp.
TELEFLEX, overhead rotary conveyor, Teleflex, Inc.

TELE-VUE, cellophane shirt and garment bags, Tele-Vue Packaging Products, Inc.
 TELL BOARD, bulletin board, Mine Safety Appliances Co.
 TELLEVEL, bin level control switches, Stephens-Adamson Mfg. Co.
 TEL-U-VISON, transparent garment bags, Mehl Mfg. Co.
 TEMPLETON, steam traps, Sterling Engineering & Mfg. Corp., Templeton Mfg. Co.
 TEN-MINIT, bleach, Warco Laboratories
 10 & 20, shirt bins, Time Savers, Inc.
 TERGESSOL, paint and grease remover, Slater-Robbins Co. Inc.
 TERGIT, spotting compound, Riverside Mfg. Co.
 TERGITOL, wetting agent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
 TER-TEX, drycleaning concentrate, Spix Products Co.
 TETRA-NOVAL, wetcleaning soap, Keystone Aniline & Chemical Co., Inc.
 TETRAPOL, spot washing, tar removal, General Dyestuff Corp.
 TETRA-SAN, liquid detergent, Huntington Laboratories, Inc.
 TEX-ALL, rug cleaner, Certified Chemical & Equipment Co.
 TEXANA, laundry soap, Texas Soap Mfg. Corp.
 TEX-IT, upholstery cleaner, Certified Chemical & Equipment Co.
 TEXTITE, industrial detergent, H. Kohnstamm & Co., Inc.
 TEXTIZE, sizing preparation, Package Chemical Co., Inc.
 TEXO, laundry soap, E. F. Drew & Co., Inc.
 TEXSCOUR, low-titer neutral red-oil soap flakes, Armour & Co.
 TEXSOL, drycleaning detergent, Riverside Mfg. Co.
 TEXTAG, lot system of production control, Carman & Co., Inc.
 TEXTAG, drycleaners identification system, Speed Check Co., Inc.
 TEXTO, glazed thread, Fleischer Mills, Inc.
 TEXTURE-SAN, fabric conditioner, Huntington Laboratories, Inc.
 TEXZYME, protein-removing desizing agent, Babst Sales Co.
 THANITE, insecticide concentrate, Hercules Powder Co.
 THERMALITE, 1000° F.F. high heat aluminum paint, Tropical Paint & Oil Co.
 THERMOCON, solvent temperature control, Mar-Mak Machinery Mfg. Co.
 THERMO-HUMIDIGRAPH, combination temperature and humidity recorder, Bristol Co.
 THERMOTEX, cover cloth, H. Kohnstamm & Co., Inc.
 THERMOTEX "S," heat-resistant cover cloth, H. Kohnstamm & Co., Inc.
 THERMOTROL, radiator control, Sterling, Inc.
 THERMO-VENTO, drying tumbler, American Laundry Machinery Co.
 THREAD-TITE, anti-seize compound (stick form) pipe thread lubricant, Armite Laboratories
 T-32, gunkster, Arrow Fastener Co.
 THOR, intermediate quality, stiff mud firebrick, Mexico Refractories Co.
 THORAL, rug shampoo, Turco Products, Inc.
 3B, automatic synthetic drycleaning unit, Prosperity Co.
 3-B DYNAMITE, soap, Rome Soap Mfg. Co.
 3-DIMENSIONAL, press covers, F. H. Bonn Co.
 302 5C, cover cloths, Whitehouse Nylon Products
 3-STAR, leather and waterproof leather belting, Charlotte Leather Belting Co.
 328, ironer oil, John P. Lynch Co.
 THIRIFEX, drycleaning soap, detergent and emulsifier, Pennsylvania Salt Mfg. Co.
 THIRIFTIES, collar supports, M. H. Cronauer Co.
 THUR-O, rug cleaning compound, Diamond Chemical Co.
 THUR-O-COLOR, cold water rug dyes, Diamond Chemical Co.
 THY-MO-TROL, electronic motor control, General Electric Co.
 TI-BAG, cover for Ti-Rak, Para-Lux Products Co.
 TIBRODE, cotton flannel padding and nets, Tingue, Brown & Co.
 TICKETAG, drycleaning identification system, "TT" TickeTag Corp.
 TICOSTEAM, packaged steam generator, Titusville Iron Works Co., Div. Struther Wells Corp.
 TICOTHERM, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
 TIE-PAK, tie racks and bags, Phoenix Products Co.
 TIGER, grease cups, Lunkenheimer Co.
 TIGER, paste-type detergent, Adco, Inc.
 TILTROL, shirt unit and shirt presses, American Laundry Machinery Co.
 TIME-O-MATIC, timers for extractors, Rosenthal Mfg. Co.
 TIME SAVERS, garment racks, trouser guards, shirt envelopes, Time Savers, Inc.
 TI-ME-TER, laundry equipment timer, Bildwell Mfrs.
 TIMKEN, roller bearings, tubings, Timken Roller Bearing Co.
 TINDECK, double-face padding, Tingue, Brown & Co.
 TINTEX, dye and dye remover, Park & Tilford
 TI-PAKS, paper twine for identification and marking purposes, A. Kimball Co.
 TI-RAK, necktie hanger, Para-Lux Products Co.
 TITANIC, stripper, Spix Products Co.
 TITE-FLEX, flexible metallic tubing, industrial and finishing filters, Titeflex, Inc.

TITESEAL, gasket and joint sealing compound, Radiator Specialty Co.
 TOKEN-TAGS, marking tags, Pre-Marked Strip Tag Co.
 TOLEDO, scales, Toledo Scale Co.
 TOPAZ, high-titer built soap chips, Armour & Co.
 TOPS, drycleaning detergent, Nu-Pro Mfg. Co.
 TORK, time switches, Tork Clock Co., Inc.
 TORNADO, blowers, industrial vacuum cleaners, floor machines, Breuer Electric Mfg. Co.
 TORRIDOR, blower unit heater, Trane Co.
 TOUCH, volatile dry spotter, G & G Chemical Co.
 TRAN-CEL-SEAL, cellulose tape, Gummed Tape & Devices Co.
 TRANSITE, asbestos-cement pipe, Johns-Manville
 TRANSVEYOR, horizontal belt conveyor, Mechanical Handling Systems, Inc.
 TREASURE, brass safety pins, (unguarded coil), Oakville Div., Scoville Mfg. Co.
 TRET-O-UNIT, constant rate proportioning pump, Proportioners, Inc.
 TRI, fur cleaning fluid, Walter Haertel Co.
 TRIAD, alkali and emulsion cleaning compounds, Detrex Corp.
 TRIAD E, trichorethylene solvent, Detrex Corp.
 TRI-CLAD, motors, General Electric Co.
 TRICLENE, drycleaning solvent, E. I. du Pont de Nemours & Co., Inc.
 TRICO, electrical and lubricating devices, Trico Fuse Mfg. Co.
 TRICO, wetcleaning sour, Trico Chemical Div., Tri-State Equipment Co.
 TRIFLEX, drycleaning detergent, Pennsylvania Salt Mfg. Co.
 TRIMERSE, enzymic digester, Trico Chemical Div., Tri-State Equipment Co.
 TRIO, alkali compounds, bleach, boiler compound, Trio Chemical Works, Inc.
 TRIPLE-A, paints, Quigley Co., Inc.
 TRIPLEX, 140° F drycleaning units, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
 TRIPP, solvent cooler and heater, temperature control, Tripp Mfg. Co.
 TRISOIL, stain remover, Eaton Chemical & Dyestuff Co.
 TRIUMPH, built non-ionic synthetic detergent, Armour & Co.
 TRIWAY, fur finishing machine, Walter Haertel Co.
 TRI X, fumigant, Walter Haertel Co.
 TROFELITE, durable protective coating, Tropical Paint & Oil Co.
 TROPICAL, cleaner for walls, floors, windows, Tropical Paint & Oil Co.
 TROPICAL, nut shells for fur cleaning, Bernard Sirota Co.
 TROUSER-FORMR, pants shaper, Bill Glover, Inc.
 TROUS-GARD, trouser guard, Para-Lux Products Co.
 TROY, laundry machinery, Troy Laundry Machinery Div., American Machine & Metals, Inc.
 TROY-ENBERG, steam engines, generators, Troy Engine & Machine Co.
 TROY-MERCURY, drycleaning unit, Troy Laundry Machinery Div., American Machine & Metals, Inc.
 TROYSPECIAL, replacement collars, Zuckerberg Co.
 TRUCLEEN, petroleum solvent for drycleaning, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
 TRU COLOR, dyeing, Troy Color Dye Works
 TRUFLEX, light duty V-belts, Gates Rubber Co.
 TRUFOLD, shirt folding machine, J. W. Steele & Co.
 TRUFORM, steam-air garment finisher, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
 TRUMATIC, flatwork folder, American Laundry Machinery Co.
 TRUMP, spot remover, Spix Products Co.
 TRU-SHEEN, CONCENTRATE, drycleaning soap, Tri-Sheen Corp.
 TRUSTY, gasoline strainers, Lunkenheimer Co.
 TRU-TONE, fabric conditioner, Adrian Research & Chemical Co.
 TT TICKETAG, 4 in 1 combination marking in, receipt, invoice, marking tag, "TT" TickeTag Corp.
 TUBE-O, trouser guard, Garment Hanger Co.
 TUB-TYPE, trucks, Market Forge Co.
 TUFF HIDE, padding, Pittsburgh Waterproof Co.
 TUFFLEX, padding, Wood Conversion Co.
 TUFF-TEX, metal press pads, X. S. Smith, Inc.
 TUFFY, heavy duty synthetic detergent, Thomson Chemical Co.
 TUMBOLITE, lighting fixture for open-end tumblers, Donnell Co.
 TURBO ACTION, washers, Zephyr Laundry Machinery Co.
 TURBO GUN, spotting gun, Elliot Rabe Mfg. Co.
 TURBO-JET, steam canopy, Hopkins Equipment Co.
 TURBO-VAC, single press vacuum system, Panter Mfg. Co.
 TURCO, insecticides, germicides, Turco Products, Inc.
 TUSWAY, strainers, Wright-Austin Co.
 TWEEN, emulsifier, wetting agent, Industrial Chemicals Dept. (Atlas Process Co.)
 20th CENTURY, needle bearing, Roller Bearing Co. of America
 20-L, laundry starch, Clinton Foods Inc.
 TWENTY-TWENTY, front-loading washer, American Laundry Machinery Co.

TWIN CONTACT CONTROLS, controls, regulators, gauges, Perflex Corp.
 TWINMATIC, washer and extractor, Imperial Laundry Machinery Co.
 TWINPLEX, fur cleaning drum and cage, Walter Haertel Co.
 TWIN-PRESS, drycleaning press, Reliable Steam Pressing Machine Service, Inc.
 TWIN RAPID, automatic shirt press, general purpose press, Reliable Steam Pressing Machine Service, Inc.
 TWINTAINER, extractor, Fletcher Works, Inc.
 TWIN-TEX, metal press pads, X. S. Smith, Inc.
 TWIST-EMS, hanger combiners, Germain's Inc.
 TWIST-EMS Div.
 TWISTEMS, hanger combiners, H. F. Hanscom & Co.
 TWITCHELL, emulsifying bases, Emery Industries, Inc.
 TWO-IN-ONE, nylon cloth, Zuckerberg Co.
 249, stripper, Patek & Co.
 2GAV, compressor plant, Westinghouse Air Brake Co., Industrial Products Div.
 209, general formula, R. R. Street & Co., Inc.
 TY-BORDS, forms for pressing neckties, Joe L. Winner
 TYCO, stick machine cleaner for hot irons, presses, Tyson Sales Co., Inc.
 TYGON, plastics, U. S. Stoneware Co.
 TYMIT, timers, Tork Clock Co., Inc.
 TYON, nylon press covers, F. H. Bonn Co.
 TYPE 16, 16+, 16+2, 16R, soap builders, Turco Products, Inc.

U

U.S., stoneware, U. S. Stoneware Co.
 UCON, lubricants (synthetic oil and grease), Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
 UCON, tumblers, drycleaning units, U. S. Hoffman Machinery Corp.
 U-LOR-A, perspiration remover, Nu-Pro Mfg. Co.
 ULTRA-LITE, sour, Standard Chemical Works Co.
 ULTRAL-SOL, soap builder, Thompson-Hayward Chemical Co.
 ULTRA-SPEED, drying tumbler, American Laundry Machinery Co.
 ULTRA-WITE, fluorescent compound, whitener, H. Kohnstamm & Co., Inc.
 UNAFLOW, steam engines, Ames Iron Works
 UNA RETURN, ironer, Zephyr Laundry Machinery Co.
 UNIFLO, drycleaning washer, Western Laundry Machinery Co.
 UNIFOAM G, rug and upholstery cleaning detergent, Fumol Corp.
 UNIFLOW, water softeners and conditioners, mechanical filters, water supply pumps, Uniflow Mfg. Co.
 UNILEVER, cylinders, Zephyr Laundry Machinery Co.
 UNILITE, zeolite water softener, Uniflow Mfg.
 UNIPRESS, air-driven laundry presses, sleeves, sport shirt units, Unipress Co.
 UNISOL, emulsifiers, oils and soaps, Universal Solvent Co.
 UNITED, laundry cart, U. S. Steel & Wire Co.
 UNITED, washable uniforms, United Cotton Goods Co., Inc.
 UNITHERM, unit heaters, Clarage Fan Co.
 UNIT KLEEN, drycleaning washer-extractor, Unit Wash Co.
 UNIT WASH, laundry washer-extractor, Unit Wash Co.
 UNIVALVE, valves, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
 UNIVERSAL, printed book matches, Universal Match Corp., St. Louis 3, Mo.
 UNIVERSAL SPEED-FEED, sales control system, Egry Register Co.
 UNIVERSAL STRIPPER, stain remover and stripper, H. Kohnstamm & Co., Inc.
 UNLOADING CASCADE, laundry washer, American Laundry Machinery Co.
 UNOX, penetrant for fire-fighting, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
 URBAN, truck bodies, Montpelier Mfg. Co.
 U-SAN-O, drycleaning, mothproofing with chlorophyll, American Mothproofing Co.
 U. S. KOGLON, press pads, sponge, Newhouse Co.
 U. S. MODEL 518-2, sewing machine for dry-cleaners, U. S. Blind Stitch Machine Corp.
 USS STAINLESS, stainless steel, U. S. Steel Co.
 USTEX, wire and cable, U. S. Rubber Co.
 UTILITY, specially built truck bodies, Utility Truck Corp.

V

V-C, feed ribbons, textiles, Virginia-Carolina Laundry Supply Co.
 V.D., spotter, Adco, Inc.
 V & W, assorting reels, V & W Equipment Co.
 VALETTERIA, drycleaning and laundry vendor, U. S. Hoffman Machinery Corp.
 VALETOR, drycleaning equipment, U. S. Hoffman Machinery Corp.
 VAN DYKE SILICA, silica brick, Mexico Refractories Co.
 VANETTE, truck bodies, Carovan Div., Universal Sales, Inc.
 VANITE, liquid detergent, Adco, Inc.
 VAPOR-CLARKSON, steam generating unit, Steam Engineering & Sales Co.
 VAPORSAVER, combination tumbler, reclainer, U. S. Hoffman Machinery Corp.
 VARIATOR, steam traps, American District Steam Co., Inc.
 VAULTMASTER, fur cleaning and storage equipment, Walter Haertel Co.
 VEEDER-ROOT, computing and counting devices, Veeder-Root, Inc.
 VEE-LOK, clutch facings, Raybestos-Manhattan Inc.
 VEE-THREE, paste drycleaning soap, Riverside Mfg. Co.
 VEGETABLE IVORY, buttons, Eureka Button Co.
 VELAN UNIVERSAL, steam trap, Velan Engineering Co.
 VELCO, marking ink and sets, Ink-O Products Co.
 VELOCITY DRAINER, steam trap (float), W. M. Acker Organization, Inc.
 VELOCITY STEAM, steam system, Velocity Steam Production Engineering Co.
 VEL-ODOR, concentrated liquid odor neutralizer, Caled Products Co., Inc.
 VELVET RAINBOW, combination starch, Huron Milling Co.
 VELVET SHEEN, rubber base wall paint, Tropical Paint & Oil Co.
 VELVET WHEAT, wheat starch, Huron Milling Co.
 VELVO, wetcleaning soap, Davies-Young Soap Co.
 VERSI, laundry and wetcleaning textile finishing compound, John T. Stanley Co., Inc.
 VERTEX, low-titer soap flakes, Swift & Co.
 VIBRAMOVER, for cleaning table, Walter Haertel Co.
 VIBRA-SORBER, pipeline vibration absorber, Flexonics Corp.
 VIC, drycleaning machinery, Vic Cleaning Machine Co.
 VICTOR, straight pins, Rison Mfg. Co.
 VICTOR, wheat starch, Keever Starch Co.
 VICTORY, blue, Minnesota Chemical Co.
 VICTORY, drycleaning soaps, Patek & Co.
 VICTORY, fur cleaning fluid, Bernard Sirofka Co.
 VICTORY, laundry marking tags, Tagit Co.
 VIGIL, diaper antiseptic and deodorant, Patek & Co.
 VIKI, pipe joint compound, Keystone Lubricating Co.
 VIKING, intermediate quality, dry press firebrick, Mexico Refractories Co.
 VIKING, pumps, Viking Pump Co.
 VIKING, suds, Los Angeles Soap Co.
 VIM, steam engines, Ames Iron Works
 VIRGINIA GREENSTONE, non-skid floor surfacing material, soaking and rinsing tubs, wetcleaning tables, Virginia Greenstone Co., Inc.
 VISCOR, filter, Weston Electrical Instrument Corp.
 VITA-CAL, self-sealing flat wall finish in semi-paste form, Vita-Var Corp.
 VITA-CLOK, mildewproofing, weatherproofing finishes, Vita-Var Corp.
 VITA-LUX, synthetic white enamel spar varnish, Vita-Var Corp.
 VITA-VAR, paints, enamels, varnishes, Vita-Var Corp.
 VITEX, drycleaning soaps, Patek & Co.
 VIVIDOL CL, synthetic drycleaning detergent, Stamford Chemical Co.
 VIVIDOL CHG, drycleaning detergent, Stamford Chemical Co.
 VIVIDOL H, petroleum drycleaning detergent, Stamford Chemical Co.
 VIVIPRESS, finishing compound, steam treating chemical, Stamford Chemical Co.
 VIVITEX, water repellent, Stamford Chemical Co.
 VOKES, air cleaners, filters, separators, strainers, Drieco Industrial Corp.
 VOL, spotting agent, Stamford Chemical Co.
 VOLTEX, spotting agent, Spix Products Co.
 VOL-U-METER, flow-responsive proportioning pump, Proportioners, Inc.
 VORCLAY, bentonite clay, American Colloid Co.
 VORCLONE, extractors, tumbler, U. S. Hoffman Machinery Corp.
 VORIFLOW, gas and oil burners, Orr & Schreiber, Inc.
 VORSEC, extractors, drycleaning units, U. S. Hoffman Machinery Corp.
 V-S DRIVE, all-electric adjustable speed drive for a.c. circuits, Reliance Electric & Engineering Co.
 VULCAN, cover cloth, Pittsburgh Waterproof Co.
 VULCAN, stokers, Canton Stoker Corp.
 VULCO, V-pulleys, Gates Rubber Co.
 VULCOMOUNT, sheaves, Gates Rubber Co.

W

W.D.P., wet or dry prespotter, Warco Laboratories
 W.L., drycleaning detergents, Caled Products Co.
 W. R. P., wet and dry paint remover, National Cleaners Chemical Mfg. Co.
 WALCO, pipe wrench, Walworth Co.
 WALDORF, paper hangers, Waldorf Co.
 WALLHIDE, paint, Pittsburgh Plate Glass Co., Paint Div.
 WALSEAL, threadless bronze fitting, Walworth Co.
 WALSH, diaphragms, gaskets, packings, pump valves, Walsh Packing Co.
 WALWORTH, valves and pipe fittings, Walworth Co.
 WARING, electric steam iron, Waring Products Corp.
 WARREN, leather belting, cement, dressing, Warren Belting Co., Inc.
 WARRIOR, tire rebuilding and repair material, Mohawk Rubber Co.
 WASH-A-WAY, washer, Cook Machinery Mfg. Co.
 WASHETTE, laundry washer, Cook Machinery Mfg. Co.
 WASHEX, combination washer-extractor, Washex Machinery Corp.
 WASHINE, bleach (sodium hypochlorite), Washine National Sands, Inc.
 WASHINITE, detergent, Washine National Sands, Inc.
 WASHMOR, nylon laundry nets, Tingle, Brown & Co.
 WASHOMETER, washing machine recorder, Huebsch Div., American Laundry Machinery Co.
 WASHTEX, overall compound, Thompson-Hayward Chemical Co.
 WATCH-DOG, water meters, Worthington Pump & Machinery Corp.
 WATCHGELL, asbestos pipe covering, blocks, Rubberoid Co.
 WATER KING, small water supply pump, Peerless Pump Div., Food Machinery & Chemical Corp.
 WATERPROOFON PKE, water repellent, Apex Chemical Co., Inc.
 WATERSPAK, polishing wax, Pittsburgh Plate Glass Co., Paint Div.
 WATERWAY, laundry combination washer-extractor, Pantex Mfg. Co.
 WAXSOL, starch lubricant, Concord Chemical Co.
 WAYNE, air compressors, pneumatic and hydraulic hoists, hose reels, Wayne Pump Co.
 WEATHER-MAKERS, air conditioning, Carrier Corp.
 WEATHER-MASTERS, air conditioning, Carrier Corp.
 WEAVE-BAC, reweaving process, Weave-Bac WEDGEWAX, anti-skid floor wax, Pest Control Equipment Co.
 WEE-SCOT, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
 WEIGHT-O-GRAPH 77, automatic scale attachment for beam scales, Howe Scale Co.
 WELDEDGE, protective metallic binding, Multi-Metal Wire Cloth Co., Inc.
 WELDMASTER, platform, Lewis-Shepard Products, Inc.
 WELFCO, steam valves, discs, Western Laundry Press Co.
 WERKITE, neutral tallow flakes, powder, Allen B. Wrisley Co.
 WERK'S COLDWATER, built red-oil soap, Allen B. Wrisley Co.
 WESCLENE, liquid break, West Side Corp.
 WESCO, dry spotter, prespotter, West Side Corp.
 WESCOTT, shirt packaging supplies, Wescott Products Corp.
 WESOFORM, volatile dry spotter, West Side Corp.
 WEST COAST, extractors, washers, curtain stretchers, West Coast Laundry Machinery Co.
 WESTERN, deep well turbine pumps, deep well turbine pressure systems, Western Pump Co., Ltd.
 WESTERN, laundry washers, extractors, drycleaning washer, tumblers, Western Laundry Machinery Co.
 WESTINGHOUSE, air compressors, Westinghouse Air Brake Co., Industrial Products Div.
 WESTINGHOUSE, lamps, Westinghouse Electric Corp.
 WESTINGHOUSE, laundromat, washers, Ald, Inc.
 WESTON, electrical indicating instruments, Weston Electric Instrument Corp.
 WESTVACO, chlorinated solvent (synthetic), Westvaco Chemical Div., Food Machinery & Chemical Corp.
 WET-AGE, wet spotter, G & G Chemical Co.
 WETAWAY, water repellent, Carman & Co., Inc.
 WET-O-DRY, paint remover, Merson Products Co.
 WETSIT, wetting agents, Jacques Wolf & Co.
 WETSOL, general spotter, Eaton Chemical & Dyeing Co.
 WETSOL, wet spotter, Nu-Pro Mfg. Co.
 WETSOLV, penetrant, Package Chemical Co.
 WETSPOT, wet spotter, Adco, Inc.
 WETSYN, synthetic detergent, E. F. Drew & Co., Inc.
 WETTEX, wetcleaner, Essential Chemicals Co.
 WETSPOTTER, paint, oil and grease remover, Riverside Mfg. Co.

WHALEBONE, leather and waterproof leather belting, Charlotte Leather Belting Co.
 WHEATEX, combination starch, Huron Milling Co.
 WHEAT-N-CORN, combination starch, Keever Starch Co.
 WHEEL, starch, A. E. Staley Mfg. Co.
 WHEEL-EZY, hand truck, Rapids-Standard Co., Inc.
 WHEELVEYOR, wheel conveyor, Mechanical Handling Systems Inc.
 WHIRL-SORT, sorting reel, Franklin Mfg. Co.
 WHIRLWIND, extractor, Fletcher Works, Inc.
 WHITE CAP, drycleaning soap, Midland Color & Chemical Co.
 WHITE CAP, laundry blue, Beach Soap Co.
 WHITEEN-100, medium-titer laundry soap, New South Mfg. Co., Inc.
 WHITEHOUSE, nylon cover cloth, flannel, press covers, sewing thread, flatwork ironer cord and tape, Whitehouse Nylon Products
 WHITE HOUSE, wheat starch, Huron Milling Co.
 WHITEHOUSE BLUE STREAK, nylon nets, Whitehouse Nylon Products
 WHITEHOUSE ROK RIB, nylon nets, Whitehouse Nylon Products
 WHITINT, fluorescent dye addition to soaps, Carlton Chemical Co., Inc.
 WHITE KING, toilet soap, coco almond soap, coco lemon soap, Los Angeles Soap Co.
 WHITE LABEL, medium-titer neutral soap, Beach Soap Co.
 WHITE RIBBON, tallow soap chips and powder, Swift & Co., Inc.
 WHITE STAR, drycleaning paste soap, R. R. Stiles & Co., Inc.
 WHITEX, bluing, Park & Tilford
 WHITLOCK, preheaters, Whitlock Mfg. Co.
 WHITSON SYSTEM, boiler return systems, Healy-Ruff Co.
 WICK, tapes and braids, Wick Narrow Fabrics Co.
 WILL-BURT, coal stokers, oil burners, gas burners, Will-Burt Co.
 WILLIAMS, laundry and drycleaning machinery, Williams Laundry Machinery Co., Inc.
 WILLIAMS & DAVIS, boilers, condensation return systems, return units, boiler feed-water systems, Williams & Davis Boiler & Welding Co., Inc.
 WILLS-MILCO, rug beater, A. O. Miller Co.
 WINDO, cedarized storage bag, Lincoln Bag Co.
 WING CLAMP, collar support, Para-Lux Products Co.
 WING-GARDS, hanger shields, Para-Lux Products Co.
 WING-LOCK, collar support, Para-Lux Products Co.
 WING-ROLL, collar support, Para-Lux Products Co.
 WINKLER, stokers, U. S. Machine Corp.
 WIRI "O" MATIC, extractor, Gross Machinery Co., Inc.
 WIZ, folding machine, Time Savers, Inc.
 WIZARD, extractors, Hammond Laundry-Cleaning Machinery Co.
 WIZARD, laundry net, Southern Mills, Inc.
 W/O EMULSIFIER, wetcleaning stock solution, Adrian Research & Chemical Co.
 WOLF, electric cloth cutters, fabric drills, rag cutters, Wolf Machine Co.
 WOLKIND, formal-wear rental service, Wolkind Bros.
 WONDERFOLD, sport shirt protectors, Sutherland Paper Co.
 WONDER WEAVERS, reweaving damaged clothing, Wonder Weavers
 WONDER WORKER, sewing machine, U. S. Machine Stitch Machine Corp.
 WONDRESS, flatwork ironer pads, Southern Mills, Inc.
 WOOL, soap, Swift & Co.
 WOOLZ, a specific woolen soap, Caled Products Co., Inc.
 WORKHORSE, rug scrubber, Certified Chemical & Equipment Co.
 WORK SAVERS, drycleaning truck, Time Savers, Inc.
 WORTHITE, pumps, Worthington Pump & Machinery Corp.
 WOVERTITE, cover cloth, padding, Lewis National Corp.
 WRAP-O-MATIC, automatic paper cutting and wrapping machine, Rosenthal Mfg. Co.
 WULPRESS, wool press cloth and surface cloth, nylon and wool press and surface cloth, Arms Textile Mfg. Co.
 WYANDOTTE, detergents, soaps, Wyandotte Chemicals Corp.
 WYTEN, soap builder, Turco Products, Inc.
 WYTINO, stripper, Kuehne Chemical Co.

X

X. L., built synthetic detergent, Armour & Co.
 XANNO, indelible ink (no heat), Applegate Chemical Co.
 X-ANDDO, collar supports, Time Savers, Inc.
 X-30, rag and overall detergent, George Stearns Chemical & Mfg. Co.
 XTRA, nylon press cloth, X. S. Smith, Inc.

Y-S, air compressors, Westinghouse Air Brake Co.
YA-DE, mothproof, Crossland Mfg. Co., Inc.
YARMOR, pine oil, Hercules Powder Co.
YARWAY GUN FAKT, expansion joints, Yarnall-Waring Co.
YARWAY HI-LO ALARM, water columns, Yarnall-Waring Co.
YARWAY HI-LO GRAPH, liquid level recorder, Yarnall-Waring Co.
YARWAY IMPULSE, steam traps, Yarnall-Waring Co.
YARWAY INVOLUTE, spray nozzles, Yarnall-Waring Co.
YARWAY SEATLESS, blow-off valves, Yarnall-Waring Co.
YARWAY SESURE INCLINED, water gauges, Yarnall-Waring Co.
YELLOWGO, liquid dye-reducing agent, A. L. Wilson Chemical Co.
YELLOW REMOVER, dye stripper, Patek & Co.
YELLOW SPECIFIC NO. 15, liquid stripper, Carman & Co., Inc.
YELO-LIQUID COLD STRIPPER, stain remover and stripper, H. Kohnstamm & Co., Inc.
YORK-HEAT, burners, generators, York-Shipley Inc.

Z-P, silk drycleaning soap for chlorinated solvent systems, Caled Products Co., Inc.
Z-AIR, drycleaning press, Prosperity Co., Inc.
ZANZIBAR-CARBON, blues, curtain colors, indelible ink, indelible ink eradicator and thinner, B. Heiler & Co.
ZARMITE, foot-power laundry presses, American Laundry Machinery Co.
ZARMO, foot-power laundry presses, American Laundry Machinery Co.
ZARMOETTE, air-driven laundry presses, American Laundry Machinery Co.
ZEETONE, paint remover, Riverside Mfg. Co.
ZELAN, durable water repellent, E. I. du Pont de Nemours & Co., Inc.
ZELCO, press and ironer pads, padding, press covers, Nathan Zellernayer & Co.
ZELTEX, press and ironer pads, padding, press covers, Nathan Zellernayer & Co.
ZENITH, electric timers, Zenith Electric Co.
ZENITH, extractors, filters, washers, Billingsly Machinery Co.
ZEOLITE, boiler feed-water treatment, National Chemical Sales Co., Laboratory, Inc.
ZEPHYR, extractor, ironer, washer, Zephyr Laundry Machinery Co.
ZERO, combination water softener and iron removers, neutralizers, Zero Water Softener Mfg. Co.
ZEROSOFT, water softener, iron remover, filter, zeolite, Zero Water Softener Mfg. Co.
ZEST, synthetic wetcleaning soap, Adco, Inc.
ZIG-ZAG, heat exchangers and reclaimers, David Stout & Sons
ZIP, Celanese curtain finisher, Hopkins Equipment Co.

ZIP, go-back conveyor, Time Savers, Inc.
ZIP-LUXOR, plastic storage bag, side opening, Rassenfoss Bag Co., Inc.
ZIPOLA, lubricant, High Chemical Co.
ZIPON, leather finish, Keystone Aniline & Chemical Co., Inc.
ZIPPER-EASE, stainless lubricant, A. G. S. Co.
ZIPPO, wetcleaning detergent, Benda Products, Inc.
ZIP-R-FIX, tool kit for repairing zippers, Mars Tool Co.
ZIP STIK, ink remover, Keystone Aniline & Chemical Co., Inc.
ZOL, synthetic drycleaning solvent, Stauffer Chemical Co.
ZOLVIT, paint, oil and grease remover, Riverside Mfg. Co.
ZONE-AIR, feather reconditioning unit, American Laundry Machinery Co.
ZONE-AIR, laundry or drycleaning drying tumbler, American Laundry Machinery Co.
ZONEX, chloroform substitute, Package Chemical Co., Inc.
ZORIC, garment cleaning system, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
Z-RAY, drycleaning detergent, Delan Co.
ZUCKERBERG, replacement collars and cuffs for white shirts, Zuckerberg Co.
ZUDS, sulphated compound for wetcleaning in salt or acid solutions, Caled Products Co., Inc.
ZURON, petroleum solvent drycleaning unit, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
ZYME, enzymic desizing and cleaning compound, Carman & Co., Inc.
ZYMO, enzymic spot remover, Keystone Aniline & Chemical Co., Inc.

To Maintain Accuracy in the Drycleaner's Standard Buyer's Guide

Manufacturers and jobbers are urged to write promptly about any changes affecting their listings in the various sections of this directory.

Manufacturers should send notice of new products, new trade names, new branch offices, changes of address, as well as discontinuances of products and trade names.

Jobbers should send notice of changes in address.

Send notification to:

Guidebook Compilation NATIONAL CLEANER & DYER

304 East 45th Street
New York 17, New York

MANUFACTURERS

equipment and supply producers listed alphabetically with their mailing addresses

A

- A. A. A. Weaving Service, 1182 Madison Ave., New York 28, N. Y.
- A. A. Laundry Machinery Co., 1110-12 S. Kedzie Ave., Chicago 12, Ill.
- A-B Novelty Corp., 519 30th St., Union City, N. J.
- ABC Collar 'N' Cuff Co., 423 Broadway, New York 13, N. Y.
- A. G. S. Co., Muskegon, Mich.
- Academy Hanger Co., Inc., 177 E. 123rd St., New York 35, N. Y.
- Academy Paper Box Co., 3604 Park Ave., New York 58, N. Y.
- Ace Cabinet Corp., 1457 Broadway, New York 36, N. Y.
- Ace Fastener Corp., 3415 N. Ashland Ave., Chicago 13, Ill.
- Ace Hose & Rubber Co., 761 W. Van Buren St., Chicago 7, Ill.
- Ace Weaving Service, 416 Madison Ave., New York 17, N. Y.
- Acker, W. M., Organization, Inc., 3167 Fulton Rd., Cleveland 9, Ohio
- Acme Dye House, Inc., 7600 Carnegie Ave., Cleveland 3, Ohio
- Acme Hatters Supply Co., 104-106 Bleeker St., New York 12, N. Y.
- Acme Industrial Compounds Corp., 625 S. Goodman, Rochester 7, N. Y.
- Acme Soap Co., 251 Third St., Cambridge 42, Mass.
- Adams Weaving Co., 1123 Republic Bldg., Chicago 4, Ill.
- Adco, Inc., 900-928 W. Main St., Sedalia, Mo.
- Addressograph-Multigraph Corp., 1200 Babbitt Rd., Cleveland 17, Ohio
- Adell Chemical Co., 176 Race St., Holyoke, Mass.
- Adelhuus Glove Cleaners, Inc. & Leather Cleaners, 1607 Devon Ave. & 3757 Fullerton, Chicago 13, Ill.
- Adhesive Products Corp., 1660 Boone Ave., New York 60, N. Y.
- Adrian Research & Chemical Co., Inc., Elm & Pennsylvania Aves., North Wales, Pa.
- Advance Floor Machine Co., 2613 S.E. Fourth St., Minneapolis 14, Minn.
- Aerco Corp., 214 Lafayette Pl., Englewood, N. J.
- Aerovent Fan Co., 709 E. Ash St., Piqua, Ohio
- Aetna Felt Co., Inc., 204 Centre St., New York 4, N. Y.
- Ald, Inc., 3549 N. Clark St., Chicago 13, Ill.
- Alemtis Div., Stewart Warner Corp., 1826 Diversey Parkway, Chicago 31, Ill.
- Alert Bolter & Mfg. Co., 9661 Robson St., Detroit 28, Mich.
- Alcraft Mfg. Co., 27 Hayward St., Cambridge 42, Mass.
- Allegheny-Ludlum Steel Corp., 2020 Oliver Bldg., Pittsburgh 22, Pa.
- Allen, R. C., Business Machines, Inc., 678 Front St., N. W., Grand Rapids, Mich.
- Allied Equipment Co., 7071 Rogers Ave., Chicago 26, Ill.
- Allied Laundry Machinery Corp., 256 Wythe Ave., Brooklyn, N. Y.
- Allied Printing & Stationery Co., Inc., 270 Lafayette St., New York 12, N. Y.
- Allio-Chalmers Mfg. Co., 1124 S. 70th St., Milwaukee 1, Wisc.
- Allie, Louis, Co., 427 E. Stewart St., Milwaukee 7, Wisc.
- Almore Dye House, 4412-4424 Wentworth Ave., Chicago 9, Ill.
- Alrose Chemical Co., 180 Mill St., P.O. Box 1294, Providence, R. I.
- Aluminum Co. of America, 640 Gulf Bldg., Pittsburgh 19, Pa.
- Ambassador Continuous Towel Cabinet Co., 123 N. Mission Rd., Los Angeles 33, Cal.
- Amber Mfg. Co., 607 S. Union Ave., Los Angeles 14, Cal.
- Amber Weaving Service, 611A Main St., Buffalo 3, N. Y.
- Americaine, Inc., 1316 Sherman Ave., Evanston, Ill.
- American Air Compressor Corp., 48th & Dell Ave., North Bergen, N. J.
- American Alcolac Corp., 3450 Fairfield Rd., Baltimore 20, Md.
- American Aniline Products, Inc., 820 S. Clinton St., Chicago 7, Ill.
- American Associated Co., Inc., 451-461 Stephens St., S.W., Atlanta, Ga.
- American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, N. Y.
- American Brass Co., American Metal Hose Branch, 698 S. Main St., Waterbury 20, Conn.
- American Cleaners Equipment Co., Div. American Laundry Machinery Co., Ross & Section Aves., Cincinnati 12, Ohio
- American Coal Burner & Wood Stoker Corp., 18 E. Erie St., Chicago 11, Ill.
- American Coat Hanger Mfg. & Specialty Co., 5917-21 W. Jefferson Blvd., Los Angeles 16, Cal.
- American Colloid Co., 363 W. Superior St., Chicago 10, Ill.
- American Coalair Corp., Box 2300, Jacksonville 3, Fla.
- American District Steam Co., 455 Bryant St., North Tonawanda, N. Y.
- American Dyeing & Cleaning Co., 4110 Worth St., Dallas 1, Texas
- American Electrical Heater Co., 6110 Cass Ave., Detroit 2, Mich.
- American Engineering Co., Aramingo Ave. & Cumberland St., Philadelphia 25, Pa.
- American Felt Co., Glenville, Conn.
- American Hair & Felt Co., 1828 Merchandise Mart, Chicago 54, Ill.
- American Hatters Supplies, Inc., 9 E. Harrison St., Chicago 5, Ill.
- American Institute of Laundering, Joliet, Ill.
- American-La France-Foamite Corp., 100 E. La France St., Elmira, N. Y.
- American Laundry Machinery Co., Norwood Station, Cincinnati 12, Ohio
- American Mineral Spirits Co., 230 N. Michigan Ave., Chicago 13, Ill.
- American Monorail Co., 13107 Athens Ave., Cleveland 7, Ohio
- American Mothproofing Co., 711 N. Euclid Ave., St. Louis 8, Mo.
- American Numbering Machine Co., Atlantic & Shepherd Aves., Brooklyn 8, N. Y.
- American Pressboard Co., 110 W. 30th St., New York 1, N. Y.
- Americas Shirt Co., 1123 Broadway, New York 10, N. Y.
- Americas Sterilizer Co., 1230 Plum St., Erie, Pa.
- American Telephone & Telegraph Co., 195 Broadway, New York 7, N. Y.
- American Textile Weaving Co., 3 N. Wabash, Chicago 13, Ill.
- American Water Softener Co., Fourth & Lehigh, Philadelphia 33, Pa.
- American Wire Form Corp., 265 Grant Ave., Jersey City 5, N. J.
- American Writing Ink Co., Inc., 15 Hathaway St., Boston 10, Mass.
- Ames Iron Works, E. Second & Cayuga Sts., Oswego, N. Y.
- Analytical Measurements, Inc., 585 Main St., Chatham, N. Y.
- Anderson, Glenn L., 3887 Bushnell Rd., Cleveland 18, Ohio
- Anderson Box & Basket Co., Inc., Henderson, Ky.
- Anderson Specialty Mfg. Co., 5 Hunt Rd., Jamestown, N. Y.
- Anderson, V. D., 1935 W. 96th St., Cleveland 2, Ohio
- Anderson-Prichard Oil Corp., Apco Tower, Oklahoma City 2, Okla.
- Andreas, M., 156 E. 88th St., New York 28, N. Y.
- Andrew Paper Box & Bag Corp., 845 Gates Ave., Brooklyn 23, N. Y.
- Andrew Technical Service, 11 E. Delaware Pl., Chicago 11, Ill.
- Angelica Uniform Co., 1419-29 Olive St., St. Louis 9, Mo.
- Angle Steel, Inc., Acorn St., Plainwell, Mich.
- Ansul Chemical Co., Marinette, Wisc.
- Anthony Co., 47-33 Fifth St., Long Island City 1, N. Y.
- Apex Chemical Co., Inc., 225 W. 34th St., New York 1, N. Y.
- Applegate Chemical Co., 5632 Harper Ave., Chicago 37, Ill.
- Aqua Electric Scale Control, Inc., 2028 E. 22nd St., Cleveland 15, Ohio
- Aqua-Seal Corp., 1450 Broadway, New York 18, N. Y.
- Aquatrol, Inc. (Specialties Div.), 689 Milwaukee Ave., Chicago 22, Ill.
- Arabol Mfg. Co., 110 E. 42nd St., New York 17, N. Y.
- Armen Chemicals, Inc., 630 S. Ashley St., Ann Arbor, Mich.
- Armit Laboratories, 6609 Broad St., Los Angeles 1, Cal.
- Armour & Co., Industrial Soap Div., 1355 W. 31st St., Chicago 9, Ill.
- Arma Textile Mfg. Co., 1407 Broadway, New York 18, N. Y.
- Armstrong Machine Works, 832 Maple St., Three Rivers, Mich.
- Arnold-Hoffman & Co., Inc., 55 Canal St., Providence, R. I.
- Aroscent, Inc., P. O. Box 269, Dobbs Ferry, N. Y.
- Arrow Fastener Co., Inc., 1 Junius St., Brooklyn 12, N. Y.
- Arrow Mfg. Co., Inc., 2924 Terrace St., Kansas City 8, Mo.
- Arrow Tank Co., Inc., 16 Barnett St., Buffalo 15, N. Y.
- Ashton Valve Co., 161 First St., Cambridge 39, Mass.
- Asselin, Victor, Fur Co., 412 Eighth Ave., New York 1, N. Y.
- Associated Crib Diapers Cos., 4747 N. Damen Ave., Chicago 25, Ill.
- Atlanta Brush Co., Box 1358, Atlanta 1, Ga.
- Atlanta Paper Co., Marietta Ave., Atlanta, Ga.
- Atlas Body Co., 4150 E. Thompson St., Philadelphia 37, Pa.
- Atlas Powder Co., Industrial Chemicals Dept., Wilmington 99, Del.
- Atlas Steel Products, Inc., 1160 Chico Ave., El Monte, Cal.
- Attapulga Clay Co., 210 W. Washington Sq., Philadelphia 5, Pa.
- Autographic Register Co., Seventh & Park, Hoboken, N. J.
- Automatic Paper Box Corp., 1011-25 S. California Ave., Chicago 13, Ill.
- Automatic (Sussman) Steam Products Corp., 140 W. 31st St., New York, N. Y.
- Automatic Temperature Control Co., Inc., Philadelphia 44, Pa.
- Automobile Insurance Co., 151 Farmington Ave., Hartford, Conn.
- Aver t, McKenna & Harrison, 22 E. 40th St., New York 16, N. Y.

B

- B & C Engineering Co., 2706 Chestnut St., Toledo, Ohio
- B & G Machinery Co., Inc., 2432 Southeastern Ave., Indianapolis 1, Ind.
- Bachr Laundry Machine Co., 29 Calumet St., Newark 5, N. J.
- Bahson Co., 1001 S. Marshall St., Winston-Salem, N. C.
- Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland 10, Ohio
- Bailey, Prihoda & Co., 326 Kalamazoo Ave., Kalamazoo 11, Mich.
- Baker, J. T., Chemical Co., N. Broad St., Phillipsburg, N. J.
- Baltimore Specialties Co., 419 W. Baltimore St., Baltimore 1, Md.
- Barter-Colman Co., 1300 Rock St., Rockford, Ill.
- Barco Mfg. Co., 1801-15 Winnemac Ave., Chicago 40, Ill.
- Barreled Sunlight Paint Co., 10 E. Dudley St., Providence 1, R. I.
- Barrett Div., Allied Chemical & Dye Corp., 40 Hector St., New York 6, N. Y.
- Bartlett Label Co., 2135 Portage St., Kalamazoo 29F, Mich.

- Bassick Co., 38 Austin St., Bridgeport 2, Conn.
 Bauer, Samuel, & Sons, Inc., 143 W. 29th St., New York, N. Y.
 Beach Soap Co., 125 Lawrence St., Lawrence, Mass.
 Beaver Pipe Tools, Inc., 310 Dana Ave., Warren, Ohio
 Beckman Instruments, Inc., 820 Madison St., South Pasadena 60, Cal.
 Behrstock, L., Co., 1708 S. State St., Chicago 10, Ill.
 Belco Industrial Equipment Div., Inc., 50 Iowa Ave., Paterson 3, N. J.
 Belmont Packing & Rubber Co., Inc., Butler & Sepviva Sts., Philadelphia 37, Pa.
 Belnap & Thompson, Inc., 271 Madison Ave., New York, N. Y.
 Bemis Bro. Bag Co., 408 Pine St., St. Louis 2, Mo.
 Benda Products, Inc., 120 Potter St., Cambridge 42, Mass.
 Bendix Aviation Corp., Flexible Hose Div., U. S. Route 6, Teterboro, N. J.
 Benwall Mfg. Co., Inc., 2859 Atlantic Ave., Brooklyn 7, N. Y.
 Bergen Machine Tool Co., Inc., Radne Unit Springs Div., 189 Franklin Ave., Nottley 10, N. J.
 Berger Mfg. Div., Republic Steel Corp., 1038 Belden Ave., N. E., Canton 3, Ohio
 Berlou Mfg. Co., 35 Blaine Ave., Marion, Ohio
 Bersworth Chemical Co., Waverly St., Framingham, Mass.
 Bertsch & Co., Cambridge City, Ind.
 Bestler Corp., 4053 Harlan St., Emeryville 8, Cal.
 Best Forms Co., 10 Grace St., P. O. Box 736, Wilmington, N. C.
 Bestway Shine Removal Co., Inc., 416 Madison Ave., New York 17, N. Y.
 Bete Fog Nozzle, Inc., 85 Pierce St., Greenfield, Mass.
 Better Packages, Inc., 255 Canal St., Shelton, Conn.
 Bigelow Chemical Products Corp., 98 Bigelow St., Quincy 69, Mass.
 Bigelow-Sanford Carpet Co., 136 Madison Ave., New York 16, N. Y.
 Bildwell Manufacturers, 315 E. Liberty St., Ann Arbor, Mich.
 Himberg, Ben, & Co., Inc., 373 Broadway, New York 10, N. Y.
 Binks Mfg. Co., 3114 W. Carroll Ave., Chicago 12, Ill.
 Bishop, G. H., Co., 1600 Foster Ave., Evanston, Ill.
 Blackmer Pump Co., 1809 Century Ave., S. W., Grand Rapids 7, Mich.
 Blau, M., Mfg. Co., P. O. Box 269, Altamonte Springs, Fla.
 Blenco Co., 698 Manhattan Ave., Brooklyn 22, N. Y.
 Bock Laundry Machine Co., Toledo Factories Bldg., Toledo 2, Ohio
 Boiler Engineering & Supply Co., 330 Fourth Ave., Phoenixville, Pa.
 Bond Foundry & Machine Co., Manheim, Pa.
 Bond Street Bag & Paper Corp., 90 First St., Brooklyn 31, N. Y.
 Bonis Bros. Fur Machinery Corp., 312 Seventh Ave., New York 1, N. Y.
 Bonn, F. H., Co., 619 W. Fulton St., Chicago 6, Ill.
 Bostitch, Inc., 537 Mechanic St., Westerly, R. I.
 Boston Clip & Tag Co., 48 Grove St., Somerville, Mass.
 Bostwick-Batterson Co., 315-23 N. 12th St., Philadelphia 7, Pa.
 Bostwick Laboratories, 706 Bostwick Ave., Bridgeport 5, Conn.
 Bower, Inc., 1312 E. Creighton Ave., Fort Wayne 6, Ind.
 Brabook, A. N., 424 Madison Ave., New York 17, N. Y.
 Brady Conveyors Corp., 20 W. Jackson Blvd., Chicago 4, Ill.
 Braun Brush Co., 8833 78th St., Woodhaven 21, N. Y.
 Braddy Engineering Corp., 3103 N. 27th St., Milwaukee 16, Wisc.
 Brenco Co., Plattville, Wisc.
 Bressler Engineering Service, 509 N. Fourth Ave., P. O. Box 111, Oregon 1, Ill.
 Breuer Electric Mfg. Co., 5100 N. Ravenswood Ave., Chicago 40, Ill.
 Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
 Brillo Mfg. Co., Inc., 60 John St., Brooklyn 1, N. Y.
 Bristol Co., Waterbury 91, Conn.
 Brooks, Alfred J., 184 Dent St., West Roxbury, Boston, Mass.
 Bros. Wm., Boiler & Mfg. Co., 1057 Tenth Ave., S.E., Minneapolis 14, Minn.
 Brownell Co., 450 N. Findlay St., Dayton 1, Ohio
 Brumber & Zinniel, 6211 N. Bay Ridge Ave., Milwaukee, Wisc.
 Bruner Corp., 2318 N. 30th St., Milwaukee 45, Wisc.
 Brunner Mfg. Co., 1821 Broad St., Utica 1, N. Y.
 Brunt Mfg. Co., 64 S. Division St., Buffalo 3, N. Y.
 Bryan Steam Corp., Chili Pike, Peru, Ind.
 Bryant Heater Div., Affiliated Gas Equipment, Inc., 17825 St. Clair Ave., Cleveland 10, Ohio
 Buffalo Meter Co., 2917 Main St., Buffalo 14, N. Y.
 Bunn, B. H., Co., 7605 Vincennes Ave., Chicago 20, Ill.
 Burcott Mills, 616 W. Fulton St., Chicago 6, Ill.
 Burd Mfg. Co., 1897 Columbus Ave., Springfield 3, Mass.
 Burkstar Specialties Co., 14019 Wyoming Ave., Detroit 4, Mich.
 Burroughs Adding Machine Co., 6071 Second Ave., Detroit 32, Mich.
 Bussard, R. D., & Son, 505 E. Fifth Ave., Albany, Ore.
 Butler Engineering Co., 2612 Rousseau St., New Orleans 13, La.
 Butler Mfg. Co., 7400 E. 13th St., Kansas City 3E, Mo.
 C & H Electric Co., 436 W. Juneau Ave., Milwaukee 3, Wisc.
 C. O. D. Cleaning & Dyeing Co., Davenport, Iowa
 Cade Paper & Bag Corp., 58 Sedgewick St., Brooklyn 2, N. Y.
 Caldwell, W. E., Co., 2050 Brook St., Louisville, Ky.
 Caled Products Co., Inc., 4200 Bladensburg Blvd., Brentwood, Md.
 Calgon, Inc., Hagan Bldg., Pittsburgh, Pa.
 California Laundry Equipment Co., 2221 Union St., Oakland, Cal.
 Callaway Mills, Inc., 295 Fifth Ave., New York 16, N. Y.
 Cambridge Instrument Co., Inc., 3030 Grand Central Terminal, New York, N. Y.
 Campbell Box & Tag Co., Main & Guide Sts., South Bend 23, Ind.
 Campbell, J. A., Co., 645 E. Wardlow Rd., Long Beach 7, Cal.
 Canton Stoker Corp., 1200 Andrew Pl., Canton 1, Ohio
 Canvas Specialty Co., P. O. Box 937, Hartford 1, Conn.
 Capital Poster Service, Inc., 307 Canal St., New York, N. Y.
 Cappel, MacDonald & Co., 30 E. 60th St., New York, N. Y.
 Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
 Carey, Phil, Mfg. Co., Lockland St., Cincinnati 15, Ohio
 Carey Salt Co., Carey Bldg., Hutchinson, Kans.
 Carlton Chemical Co., Inc., 33 Commerce St., New York 14, N. Y.
 Carlyle Rubber Co., Inc., 64 Park Pl., New York 7, N. Y.
 Carman & Co., Inc., 70 Summit St., Brooklyn 31, N. Y.
 Carnegie-Illinois Steel Corp., Carnegie Bldg., Pittsburgh 30, Pa.
 Carovan Div., Universal Sales, Inc., Delaware, Ohio
 Carrier Corp., 300 S. Geddes St., Syracuse, N. Y.
 Carson Textile Co., Inc., 2401 S. Swanson St., Philadelphia, Pa.
 Carter's Ink Co., 239 First St., Cambridge 42, Mass.
 Carver Pump Co., Hershey & Green Sts., Muscatine, Iowa
 Cash, A. W., Co., P. O. Box 551, Decatur, Ill.
 Cash, J. & J., Inc., Chestnut St., South Norwalk, Conn.
 Caterpillar Tractor Co., 350 Fifth Ave., New York, N. Y.
 Central Brass Mfg. Co., 2950 E. 55th St., Cleveland 4, Ohio
 Central Dyeing Co., 1550 Dickson Ave., Scranton 9, Pa.
 Centrite, 2224 63rd St., Kenosha, Wisc.
 Century Electric Co., 1806 Pine St., St. Louis 3, Mo.
 Century Paper Products Co., 333 N. Francisco, Chicago, Ill.
 Certified Chemical & Equipment Co., 5366 St. Clair Ave., Cleveland 3, Ohio
 Chase Valve Div., American Laundry Machinery Co., Norwood Station, Cincinnati 12, Ohio
 Challenge Marking Tag Co., 3917-21 W. Jefferson Blvd., Los Angeles 16, Cal.
 Chambers Extractor Co., 201 Embarcadero, San Francisco 11, Cal.
 Champion Implement Corp., 45 W. 45th St., New York 19, N. Y.
 Chandler Machine Co., West St., Ayer, Mass.
 Charlotte Leather Belting Co., 314-B E. Sixth St., Charlotte 1, N. C.
 Chase Brass & Copper Co., 236 Grand St., Waterbury 91, Conn.
 Chatillon, John, & Sons, 89 Cliff St., New York 38, N. Y.
 Checking System Co., 515 S. Walker St., Columbia, S. C.
 Chek Products, Inc., 31 Nassau Pl., East Orange, N. J.
 Chelsea Fan & Blower Co., 639 South Ave., Plainfield, N. J.
 Chempump Corp., 1300 E. Mermaid Lane, Philadelphia 18, Pa.
 Chevlin, Samuel, Co., Inc., 2721 N. Halsted St., Chicago 4, Ill.
 Chevrolet Motor Div., General Motors Corp., Detroit 2, Mich.
 Chicago Automatic Stoker Co., 14 N. Clinton St., Chicago 6, Ill.
 Chicago Dryer Co., 2210 N. Pulaski Rd., Chicago 39, Ill.
 Chicago Pearl Button Co., 216 W. Jackson Blvd., Chicago 6, Ill.
 Chicago Pump Co., 2300 Wolfram St., Chicago 18, Ill.
 Chicago Used & New Laundry Equipment Co., 3128 W. Lake St., Chicago 12, Ill.
 Chisholm-Moore Hoist Corp., Fremont Ave., Tonawanda, N. Y.
 Chrisman, E. L., Co., Inc., Div. Fleetwood-Airflow, 8255 Compton Ave., Los Angeles 1, Cal.
 Chrysler Corp., Airtemp Div., 1119 Leo St., Dayton, Ohio
 Chrysler Corp., Amplex Div., 6501 Harper Ave., Detroit 31, Mich.
 Cidex Corp., 85 Franklin St., Jersey City 7, N. J.
 Cincinnati Marking Tag & Supply Mfg. Co., 12 E. Ninth St., Cincinnati 2, Ohio
 Cincinnati Repair Service, 413 Race St., Cincinnati, Ohio
 Circle Pleating & Pattern Co., Ltd., 265 W. 40th St., New York 18, N. Y.
 Cissell, W. M., Mfg. Co., Inc., P. O. Box 1143, 831 S. First St., Louisville 3, Ky.
 Clamage Fan Co., North & Porter Sts., Kalamazoo 16, Mich.
 Clark Mfg. Co., 1830 E. 38th St., Cleveland 14, Ohio
 Clayton Mfg. Co., 1363 N. Temple City Blvd., El Monte, Cal.
 Cleaners Hanger Co., 18140 James Couzens Highway, Detroit 35, Mich.
 Cleaners Sales & Equipment Corp., 201 Washington St., New York 7, N. Y.
 Cleaners Specialties Supplies Co., 6615 N. Fairfield Ave., Chicago 45, Ill.
 Clear View Packaging Co., 2636 S. Michigan Ave., Chicago 16, Ill.
 Cleaver-Brooks Co., 358 E. Keefe Ave., Milwaukee 12, Wisc.
 Cleveland Garment Hanger Co., 8205 Madison Ave., Cleveland 2, Ohio
 Cleveland Heater Co., 2310 Superior Ave., Cleveland, Ohio
 Cleveland Rug Cleaning Machinery Co., 5618 Hamlet Ave., Cleveland 4, Ohio
 Clinton Foods Inc., Clinton, Iowa
 Clinton Products Co., Clinton 7, Mich.
 Clipper Belt Lacer Co., 974 Front Ave., N.W., Grand Rapids 2, Mich.
 Clopay Corp., Clopay Sq., Cincinnati 14, Ohio
 Clorox Chemical Co., 850 42nd Ave., Oakland 1, Cal.
 Coates Electric Mfg. Co., 3610 First Ave., S., Seattle 4, Wash.
 Cochrane Corp., 3101 N. 17th St., Philadelphia 32, Pa.
 Coe Mfg. Co., Bank St., Painesville, Ohio
 Coffman Mfg. Corp., 531 Milwaukee Ave., Chicago 22, Ill.
 Cole Leather Cleaners of America, 1287 Second Ave., New York 21, N. Y.
 Colgate-Palmolive Co., 105 Hudson St., Jersey City 2, N. J.
 College Chemical Co., 16 Brooks Park, Medford, Mass.
 Colonial Rubber Co., Ravenna, Ohio
 Colorado Tent & Awning Co., 1642 Lawrence St., Denver 2, Colo.
 Colson Corp., N. Cedar St., Elyria, Ohio
 Columbia Appliance Corp., 47-47 35th St., Long Island City, N. Y.
 Columbia Boiler Co., Pittsford, Pa.
 Columbia Laundry Machinery Co., 1313-19 E. 15th St., Kansas City, Mo.
 Columbia Needlework Supply Co., Gearhart Runner Knitter Co., 411 Sixth St., N.E., Washington 2, D. C.
 Columbia Sewing Machine Corp., 129-131 W. 22nd St., New York 3, N. Y.
 Columbia-Southern Chemical Corp., 632 Duquesne Way, Pittsburgh 22, Pa.
 Columbus Reweavers, 7651 N. E. Second Ave., Miami, Fla.
 Combustion Control Corp., 77 Broadway, Cambridge 42, Mass.
 Combustion Div., Steel Products Engineering Co., 1205 W. Columbia St., Springfield, Ohio
 Combustion Engineering Co., Inc., 200 Madison Ave., New York, N. Y.
 Comer Co., 308 Ivy St., N. E., Atlanta 1, Ga.
 Commercial Dye Works, 14 Roswell St., Roxbury 19, Mass.
 Commercial Investment Trust, Inc., 1 Park Ave., New York 16, N. Y.
 Commercial Tag Co., 187 Vanderbilt Bldg., Brooklyn 5, N. Y.
 Conco Engineering Works, Div. H. D. Conkey & Co., 1900 Orange St., Mendota, Ill.
 Concord Chemical Co., Moorestown, N. J.
 Conrad Embroidery Co., 523 30th St., Union City, N. J.
 Con-Secu-Tag, Inc., 27 Hooper St., Brooklyn 11, N. Y.
 Continental Car-Na-Var Corp., P. O. Box 344, Brazil, Ind.

MANUFACTURERS

Cook Machinery Co., Inc., 4122 Commerce St., Dallas, Texas.
 Cook's, Adam, Sons, Inc., 5 N. Stiles St., Linden, N. J.
 Coolidge, John E., Co., 2508 W. Slauson Ave., Los Angeles 43, Cal.
 Cooper-Bessemer Corp., N. Sandusky St., Mt. Vernon, Ohio.
 Cooper, H. P., Co., 308-10 S. Green St., Chicago 7, Ill.
 Cooper, T. G., & Co., Inc., Cedar & Venango Sts., Philadelphia 6, Pa.
 Cornell Belting Co., 440 N. Wells St., Chicago 10, Ill.
 Cornell Paperboard Products Co., Milwaukee 1, Wisc.
 Cornick Piece Control Tag Co., 3160 N. Broadway, Chicago 13, Ill.
 C-O-Two, U. S. Highway 1, Newark 1, N. J.
 Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3, Ohio.
 Cramer, R. W., & Co., Inc., Centerbrook, Conn.
 Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.
 Cravenette Co., U. S. A., Eighth & Madison Sts., Hoboken, N. J.
 Crawford Fitting Co., 884 E. 140th St., Cleveland, Ohio.
 Crescent Belt Fastener Co., 480 Lexington Ave., New York 17, N. Y.
 Crewdson Co., 360 E. Grand Ave., Chicago 11, Ill.
 Crocker-Wheeler Electric Mfg. Co., Div. Joshua Hendy Iron Works, Ampere, N. J.
 Crosby Steam Gauge & Valve Co., 10 Roland St., Boston 29, Mass.
 Crown Mfg. Co., 1025 N. Sixth St., St. Louis 1, Mo.
 Crucible Steel Co. of America, Henry W. Oliver Bldg., Pittsburgh 30, Pa.
 Crystalite Co., Inc., 283 McKinley Ave., East Orange, N. J.
 Culligan Zeolite Co., 1810 Shermer Rd., Northbrook, Ill.
 Cummings-Landau Laundry Machinery Co., Inc., 305 Ten Eyck St., Brooklyn 6, N. Y.
 Cuno Engineering Corp., 80 S. Vine St., Meriden, Conn.
 Cupp-Hess Corp., 4175 N. Kingshighway Blvd., St. Louis 15, Mo.
 Curry, J. W. Co., 2615 Cummins St., Cincinnati 25, Ohio.
 Curtis Mfg. Co., 1905 Kienlen Ave., St. Louis 20, Mo.
 Custom Engineering Co., 3158 W. Slauson Ave., Los Angeles 43, Cal.
 Custom Fur Service, Inc., Second Ave. at 109th St., Troy, N. Y.
 Cutler-Hammer, Inc., 315 N. 12th St., Milwaukee 1, Wisc.
 Cyclotherm Div., U. S. Radiator Corp., 157 E. First St., Oswego, N. Y.

D

Dahlberg Machinery Co., 918 E. Superior St., Duluth, Minn.
 Dakota Chemical Co., Aberdeen, S. D.
 Daniels, C. R., Inc., 4900 Wetheredville Rd., Baltimore 16, Md.
 Darco Dept. (Atlas Powder Co.), 60 E. 42nd St., New York 17, N. Y.
 Darnell Corp., Ltd., 12000 Woodruff Ave., Downey, Cal.
 Davies-Young Soap Co., Box 995, Dayton 1, Ohio.
 Davis Emergency Equipment Co., Inc., 45 Halleck St., Newark 4, N. J.
 Davis Engineering Corp., 1604 E. Grand St., Elizabeth 4, N. J.
 Davis, K. H., Mfg. Corp., 2415 E. 23rd St., Los Angeles 11, Cal.
 Davis Mills, Inc., 211 Grant Ave., East Newark, N. J.
 Davis Regulator Co., 2663 W. 25th Pl., Chicago 8, Ill.
 Davis Specialties, Inc., 1600 Foster Ave., Evanston, Ill.
 Davis-Well Mfg. Co., Inc., 931 S. Front St., Memphis 3, Tenn.
 Dean Hill Pump Co., 4000 E. 16th St., Indianapolis 7, Ind.
 DeBothezat Fans Div., American Machine & Metals, Inc., East Moline, Ill.
 Decatur Pump Co., 2750 Nelson Pk. Rd., Decatur 70, Ill.
 Deep Rock Oil Corp., 155 N. Clark St., Chicago 90, Ill.
 Defender Instrument & Regulator Co., 815 Clark Ave., St. Louis 2, Mo.
 Dejar Electric Works, 124 Blecker St., New York 12, N. Y.
 Defan Co., 421 E. Fourth South St., Salt Lake City 2, Utah.
 De Laval Steam Turbine Co., 853 Nottingham Way, Trenton 2, N. J.
 Delco Products Co., 1109-11 First St., Lanett 1, Ala.
 De Kalb Commercial Body Corp., De Kalb, Ill.
 Denning Co., Salem, Ohio.
 Denney Tag Co., West Chester, Pa.
 Dennison Mfg. Co., 300 Howard St., Framingham, Mass.

Denominator Co., 261 Broadway, New York, N. Y.
 D'Este Div., Kaye & McDonald, Inc., 11-15 Central Ave., West Orange, N. J.
 Detecto Scales, Inc., 540 Park Ave., Brooklyn 5, N. Y.
 Detex Watchclock Corp., 76 Varick St., New York 13, N. Y.
 Detrex Corp., Box 501, Detroit 32, Mich.
 Detroit Belt Lacer Co., 3951 A St., Detroit 16, Mich.
 Detroit Stoker Co., General Motors Bldg., Detroit, Mich.
 DeVilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
 Devore & Reynolds Co., Inc., 44th St. & First Ave., New York, N. Y.
 Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14, Ohio.
 Diamond Chain Co., Inc., 402 Kentucky Ave., Dept. 442, Indianapolis 7, Ind.
 Diamond Chemical Co., 720 Clementine St., San Francisco 3, Cal.
 Diamond Chemical Co., Inc., 34-02 Laurel Hill Rd., Maspeth 78, N. Y.
 Diamond Metal Products Co., 406 Market St., St. Louis 2, Mo.
 Diamond T Motor Co., 4401 W. 26th St., Chicago 23, Ill.
 Diamond Wire Hanger Co., 252 State St., Clairton, Pa.
 Dewey-Shepard Boiler Co., 1311 N. Capital Ave., Indianapolis 2, Ind.
 Dicalite Div., Great Lakes Carbon Corp., 18 E. 48th St., New York 17, N. Y.
 Dico Co., 200 S. W. 16th St., Des Moines 5, Iowa.
 Diehl Mfg. Co., Electrical Div., Singer Mfg. Co., 1136 Findern Ave., Somerville, N. J.
 Diem & Wing Paper Co., Gilbert Ave., Viaduct, Cincinnati 2, Ohio.
 Dignity Mfg. Co., 1238 Voskamp St., Pittsburgh 12, Pa.
 Display Features, 3811 Plumstead Ave., Drexel Hill, Pa.
 Dittus Garment Dyers Corp., 9528-30 Dittus Ave., Brooklyn 12, N. Y.
 Divco Corp., 22000 Hoover Rd., P. O. Box 3807, Park Grove Station, Detroit 15, Mich.
 Dixie Hanger Co., Subsidiary United Paper Co., Inc., 1000 Chartres St., New Orleans 16, La.
 Dix Co., 225 River Rd., Garfield, N. J.
 Dixon Boiler Works, 1625 Naud St., Los Angeles, Cal.
 Doctor Boiler, Inc., 4316 Main St., Dallas, Texas.
 Dodge Div., Chrysler Corp., 7900 Jos. Campeau Ave., Detroit, Mich.
 Donnell Co., P. O. Box 84, St. Joseph, Mich.
 Doran Bros., Inc., 30 Shelter Rock Rd., Danbury, Conn.
 Dover Stamping Co., 80 Federal St., Boston 10, Mass.
 Dow Chemical Co., Midland, Mich.
 Draper-Eze Equipment Co., 110-112 E. Sixth St., Erie, Pa.
 Dravo Corp., 300 Penn Ave., Pittsburgh 22, Pa.
 Dresser Mfg. Div., Dresser Industries, Inc., 41 Fisher Ave., Bradford, Pa.
 Drew, E. F., & Co., Inc., 15 E. 26th St., New York 10, N. Y.
 Driair Process Machinery Co., Penn & Ruan Sts., Philadelphia 24, Pa.
 Drico Industrial Corp., 29 Broadway, New York 6, N. Y.
 Dri Flo Mfg. Co., 642 E. Ten Mile Rd., Hazel Park, Mich.
 Driscoll Co., 251 Causeway St., Boston 14, Mass.
 Dryco Corp., 1600 Foster Ave., Evanston, Ill.
 DuBille Collar Co., 200 Worth St., New York 13, N. Y.
 Duffen Dye Works, 2213 County St., Portsmouth, Va.
 Du Pont de Nemours, E. I., & Co., Inc., Wilmington 98, Del.
 Durable Fibre Sample Case Co., 207 Wooster St., New York 12, N. Y.
 Durant Mfg. Co., 1925 N. Buffum St., Milwaukee 1, Wisc.
 Dwyer, F. W., Mfg. Co., 317 S. Western Ave., Chicago 12, Ill.
 Dytex Chemical Co., 140 India St., Providence 3, R. I.

E

Eagle Belting & Leather Co., 1401 Central Parkway, Cincinnati 14, Ohio.
 Eastern Cyclone Conveyor System, Inc., 876 Van Houten Ave., Clifton, N. J.
 East Industries, 162 N. Clinton St., Chicago 6, Ill.
 Eaton Chemical & Dyestuff Co., 1490 Franklin St., Detroit 7, Mich.
 Ebo Mfg. Co., 401 W. Town St., Columbus, Ohio.
 Eckert-Richmond Co., 206-08 W. 29th St., New York 1, N. Y.
 Eclipse Fuel Engineering Co., 1100 Buchanan St., Rockford, Ill.
 Eclipse Pioneer Div., Bendix Aviation Corp., Teterboro, N. J.
 Economy Hanger Machine & Equipment Co., 3670 El Cajon Blvd., San Diego, Cal.
 Economy Tablet & Paper Co., 667 W. 14th St., Chicago, Ill.

Econo-Pak Register Co., 1337 E. 27th St., Kansas City 8, Mo.
 Edwards, Vincent, & Co., 342 Madison Ave., New York 17, N. Y.
 Edward Valves, Inc., Subsidiary Rockwell Mfg. Co., 1200 W. 145th St., East Chicago, Ind.
 Egan Cotton Mills, 866 Murphy Ave., S.W., Atlanta 4, Ga.
 Egry Register Co., 429 E. Monument Ave., Dayton 2, Ohio.
 Electric Auto-Lite Co., Instrument & Gauge Div., Champlain St., Toledo 1, Ohio.
 Electric City Dyeing Co., 509 Glenn St., Scranton, Pa.
 Electric Steam Boiler Sales, Div. Wolf Co., Wolf Ave., Chambersburg, Pa.
 Electric Storage Battery Co., 42 S. 15th St., Philadelphia 2, Pa.
 Electro Chemical Engineering Co., Inc., P. O. Box 27, Bremen Station, St. Louis 7, Mo.
 Electro Lift, Inc., 30 Church St., New York 7, N. Y.
 Elgin-Refinite, Inc., Div. of Elgin Softener Corp., 150 N. Grove Ave., Elgin, Ill.
 Elliott Co., Crocker-Wheeler Div., Ampere, N. J.
 Elliott, Robert, Press, Inc., 345 Ludlow St., Stamford, Conn.
 Ellis Drier Co., 2444 N. Crawford Ave., Chicago 39, Ill.
 Emery Industries, Inc., 2504 Carew Tower, Cincinnati 2, Ohio.
 Empire Cleaning & Dyeing Works, 622 Hollenbeck St., Rochester 5, N. Y.
 Endriss Chemicals, 940 N. Delaware Ave., Philadelphia 23, Pa.
 Equitable Paper Bag Co., Inc., 45-50 Van Dam St., Long Island City 1, N. Y.
 Erie City Iron Works, 1550 East Ave., Erie, Pa.
 Erie Enameling Co., 1920 Woodrow St., Erie, Pa.
 Ernest, F. P., Mfg. Co., 1112 St. Clair Ave., East St. Louis, Ill.
 Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8, Wisc.
 Eure & Co., 1842 Bladensburg Rd., N. E., Washington 2, D. C.
 Eureka Button Co., 892 Broadway, New York 3, N. Y.
 Everett Sales & Equipment Corp., 251 Third Ave., New York 10, N. Y.
 Everlasting Valve Co., 49 Fisk St., Jersey City 5, N. J.
 Ewing, R., & Sons, Inc., P. O. Box 454, Green Island, N. Y.
 Excel Products Co., 533 W. 9th St., Davenport, Iowa.
 Excelsior Machinery Co., 1452 Randolph St., Detroit 26, Mich.

F

Fabricare Chemical Corp., 920-930 E. 43rd St., Chicago 15, Ill.
 Fabricon Co., 8342 S. Prairie Ave., Chicago 19, Ill.
 Fafair Bearing Co., Booth St., New Britain, Conn.
 Fairbanks Co., 393 Lafayette St., New York 3, N. Y.
 Fairbanks Morse & Co., Fairbanks Morse Bldg., 600 S. Michigan St., Chicago 5, Ill.
 Fairfield Laboratories, Plainfield, N. J.
 Fastik Co., 1106 W. Erie St., Chicago 22, Ill.
 Fawr, Inc., 1183 Jefferson Ave., Buffalo, N. Y.
 Federal Motor Truck Co., 5780 Federal Ave., Detroit, Mich.
 Federal Textile Corp., East & Water Sts., New Haven, Conn.
 Fenton Label Co., 506-512 Race St., Philadelphia 6, Pa.
 Fielden Instrument Corp., 2920 N. Fourth St., Philadelphia, Pa.
 Filtril Corp., 727 W. Seventh St., Los Angeles 17, Cal.
 Firefly Asbestos Products Co., 175 Bergen St., Newark 3, N. J.
 Fischer & Porter Co., Hathoro, Pa.
 Fisher Dye Works, 1813 Emmanuel St., Houston, Texas.
 Fiske Bros. Refining Co., Lubriplate Div., 129 Lockwood St., Newark 5, N. J.
 Flash Fast Marker Co., 994 Dover Ave., Akron 20, Ohio.
 Fleetwood-Airflow, E. I. Christman Co., Div., 8255 Compton Ave., Los Angeles 1, Cal.
 Fleischer Mills, Inc., 316 E. Fifth St., Cincinnati 2, Ohio.
 Fletcher Works, Inc., 213 Glenwood Ave., Philadelphia 40, Pa.
 Flexible Steel Lacing Co., 4607 Lexington St., Chicago 44, Ill.
 Fleming Corp., 1304 S. Third Ave., Maywood, Ill.
 Flintkote Co., 30 Rocketteller Plaza, New York 20, N. Y.
 Flow-Master Machine Corp., 522 Seventh Ave., Brooklyn 15, N. Y.
 Flynn & Enrich Co., 301 Holliday St., Baltimore 2, Md.
 Ford Div., Ford Motor Co., 3000 Schaeffer Rd., Dearborn, Mich.
 Ford, Luther, & Co., 100 N. Seventh St., Minneapolis 3, Minn.
 Ford Tank Maintenance Co., Inc., 715 E. 136th St., New York 54, N. Y.

Formula Controls, Inc., 612 W. 26th St., Chicago 16, Ill.
 Forse Equipment Corp., 600 W. 14th St., Anderson, Ind.
 Foster-Stephens, Inc., 310 S. Christiana Ave., Chicago 24, Ill.
 Foxboro Co., 38 Neponset Ave., Foxboro, Mass.
 Franklin Mfg. Co., 2615 E. Franklin Ave., Minneapolis 6, Minn.
 Franklin Research Co., 5134 Lancaster Ave., Philadelphia 31, Pa.
 Franklin Rug Machinery Co., P. O. Box 187, Franklin, Pa., Ill.
 Franklin Textile Mills, 120 Franklin St., Franklin Park, Mass.
 Fre-Bir-Pac, Inc., 876 Van Houten Ave., Clifton, N. J.
 Fremont Rubber Co., 317 McPherson Highway, Fremont, Ohio
 French Textile Co., 432 Ave. A., Rochester, N. Y.
 Freund, Freuser & Co., Inc., 102 Franklin St., New York 13, N. Y.
 Freyberg Bros.-Strauss, Inc., 419 Fourth Ave., New York 16, N. Y.
 Frigidaire Div., General Motors Corp., 300 Taylor St., Dayton 1, Ohio
 Fry Bros. Co., 1728-46 Dana Ave., Cincinnati 7, Ohio
 Frye, E. B. & Son, Wilton, N. H.
 Fulco Corp., 2358 N. Seeley Ave., Chicago 47, Ill.
 Fulton Boiler Works, Inc., S. Fourth St., Fulton, N. Y.
 Fumol Corp., 49-65 Van Dam St., Long Island City 1, N. Y.
 Furtek, Inc., 258 E. Third St., Mt. Vernon, N. Y.

G

G & G Chemical Co., 704 W. Broadway, Hope-
 well, Va.
 GMC Truck & Coach Div., General Motors
 Corp., 660 South Blvd., E., Pontiac 11, Mich.
 Gabriel Boiler & Fabrication Co., 1428 N.W.
 14th Ave., Portland 9, Ore.
 Gardner-Denver Co., Gardner Dr., Quincy, Ill.
 Gardner Machinery Corp., N. Andriol Terrace &
 Seaboard Railway, Charlotte 1, N. C.
 Garlock Packing Co., 402 E. Main St., Palmyra,
 N. Y.
 Garment Finishing Equipment Corp., 18 Brattle
 St., Cambridge 38, Mass.
 Garment Hanger Co., 2624 Geraldine St., Los
 Angeles 11, Cal.
 Gasway Corp., 6463 N. Ravenswood Ave., Chi-
 cago 26, Ill.
 Gates Rubber Co., 999 S. Broadway, Denver 17,
 Colo.
 Geller, I. & Son, 990 Myrtle Ave., Brooklyn 6,
 N. Y.
 General Aniline & Film Corp., Special Products
 Sales Div., 444 Madison Ave., New York 22,
 N. Y.
 General Boiler Equipment Corp., 2651-53 Gravois
 St., St. Louis 18, Mo.
 General Chemical Div., Allied Chemical & Dye
 Corp., 40 Rector St., New York 6, N. Y.
 General Cleaners' Products Co., 410 N. Kedzie
 Ave., Chicago 12, Ill.
 General Detroit Corp., 2272 E. Jefferson St., De-
 troit 7, Mich.
 General Dyeing Co., 818 Dorman St., Indianapo-
 lis 2, Ind.
 General Dyestuff Corp., 435 Hudson St., New
 York 14, N. Y.
 General Electric Co., 1 River Rd., Schenectady 5,
 N. Y.
 General Electric Co., Air Conditioning Dept., 5
 Lawrence St., Bloomfield, N. J.
 General Electric Co., Lamp Dept., Nela Park,
 Cleveland, Ohio
 General Luminescent Corp., 732 S. Federal St.,
 Chicago 5, Ill.
 General Motors Corp., General Motors Bldg.,
 Detroit 2, Mich.
 General Pacific Corp., 1501 E. Washington Blvd.,
 Los Angeles 21, Cal.
 General Scientific Equipment Co., 27th & Hunt-
 ington Sts., Philadelphia 32, Pa.
 Gerber Mfg. Co., 1602 W. Sixth St., Mishawaka,
 Ind.
 Germaclean, Inc., 431 Niagara St., Buffalo 1,
 N. Y.
 Germain's Inc., Twist-Ems Div., Los Angeles 21,
 Cal.
 Gibraltar Fabrics, Inc., 2236 Pitkin Ave., Brook-
 lyn 7, N. Y.
 Gifford, H. M., Mfg. Co., 2732 B St., Philadel-
 phia 34, Pa.
 Gilbert & Barker Mfg. Co., West Springfield,
 Mass.
 Glamorene, Inc., 10 E. 44th St., New York 17,
 N. Y.
 Glidden Co., 11001 Madison Ave., Cleveland 2,
 Ohio
 Glis'n Products Co., Inc., 11131 Michigan Ave.,
 Chicago 28, Ill.
 Globe Ticket Co. of New England, 620 Common-
 wealth Ave., Boston 15, Mass.

Globe Weaving Co., 17 N. State St., Chicago, Ill.
 Glover, Bill, Inc., 5204 Truman Rd., Kansas City
 1, Mo.
 Golden-Anderson Valve Specialty Co., 1232
 Ridge Ave., Pittsburgh 33, Pa.
 Goldman Pressing Machine Corp., 400 W. Broad-
 way, New York 12, N. Y.
 Goodrich, B. F. Co., 500 S. Main St., Akron 18,
 Ohio
 Goodyear Tire & Rubber Co., Akron, Ohio
 Gorton Heating Corp., Cranford, N. J.
 Goulds Pumps, Inc., 300 Fall St., Seneca Falls,
 N. Y.
 Graton & Knight Co., 356 Franklin St., Worces-
 ter 4, Mass.
 Graver Tank & Mfg. Co., Inc., 4809 Tod Ave.,
 East Chicago, Ind.
 Graves & Marshall Co., 720 E. Monument Ave.,
 Dayton 2, Ohio
 Greaves Machine Tool Co., 2001-17 Eastern Ave.,
 Cincinnati 2, Ohio
 Green, A. P., Fire Brick Co., Mexico, Mo.
 Greenville Chemical Co., Cor. E. Stone & Ben-
 nett, Greenville, S. C.
 Greenwood Textile Co., 390 Fenn St., Pittsfield,
 Mass.
 Greif Bros. Co., Wire Garment
 Hanger Div., Pennsylvania Ave., Delaware,
 N. Y.
 Grill, Samuel, Inc., 412 Eighth Ave., New York
 1, N. Y.
 Grimes Co., 2900 Main St., Dallas 1, Texas
 Gronauer, M. H. Co., 11 Nettleton, Memphis 2,
 Tenn.
 Gross Machinery Co., Inc., 179-191 Halbert St.,
 Buffalo 14, N. Y.
 Gulf Oil Corp.-Gulf Refining Co., 3800 Gulf
 Bldg., Pittsburgh 30, Pa.
 Gummed Tape & Devices Co., 1318-20 60th
 St., Brooklyn 19, N. Y.
 Gustin-Kramer Co., 74-80 Cunningham St., Boston
 15, Mass.
 Guth, Edwin F. Co., 2615 Washington Ave., St.
 Louis 3, Mo.

H

Hachik Bleach Co., Wynnfield Ave., Philadelphia
 31, Pa.
 Haertel, Walter, Co., 2840 Fourth Ave., S.,
 Minneapolis 8, Minn.
 Hagan Corp., 323 Fourth Ave., Pittsburgh 22, Pa.
 Hall, Amos H. & Sons, 3500 N. Water St., Phila-
 delphia 20, Pa.
 Hamilton Caster & Mfg. Co., 1637 Dixie High-
 way, Hamilton, Ohio
 Hamilton Copper & Brass Works, Div. Brighton
 Copper Works, Inc., 820 State Ave., Cin-
 cinnati 4, Ohio
 Hamel-Dahl Co., 247 Richmond St., Providence
 3, R. I.
 Hammond Laundry-Cleaning Machinery Co., Ham-
 mond Bldg., Waco, Texas
 Handy Button Machine Co., 2255 S. Rockwell
 St., Chicago 8, Ill.
 Handy Specialties, 9159 W. Pico Blvd., Los
 Angeles 35, Cal.
 Hanover H. F. & Co., 58 Hospital St., Providence
 3, R. I.
 Hapman-Dutton Co., Dutton Boiler Div., 629
 Gibson St., Kalamazoo 6, Mich.
 Harris Bros. Mfg. Co., Inc., 20-22 Grotan Ave.,
 Cortland, N. Y.
 Harrison, Robert D., Inc., 566 E. Warren Ave.,
 Detroit 2, Mich.
 Hatters Supply House, Inc., 404 S. Wells St.,
 Chicago 7, Ill.
 Hauser-Stander Tank Co., 4838 Spring Grove
 Ave., Cincinnati 32, Ohio
 Haynes Stellite Co., Unit of Union Carbide &
 Carbon Corp., 30 E. 42nd St., New York 17,
 N. Y.
 Hays Corp., 742 E. Eighth St., Michigan City,
 Ind.
 Healy-Ruff Co., 2255 University Ave., St. Paul
 4, Minn.
 Heinemann Electric Co., Pennsylvania Ave. &
 Plum St., Trenton 2, N. J.
 Heller, B. & Co., 3925 Calumet Ave., Chicago
 15, Ill.
 Heller Laboratories, 196 Morgat St., Jersey City
 2, N. J.
 Hellige, Inc., 37-18 Northern Blvd., Long Island
 City 1, N. Y.
 Heminway & Bartlett Mfg. Co., 500 Fifth Ave.,
 New York 35, N. Y.
 Henrici Laundry Machinery Co., 11 Henrici St.,
 Mattapan Station, Boston 26, Mass.
 Henry Hanger Co. of America, 450 Seventh Ave.,
 New York 1, N. Y.
 Hercules Laundry Machinery Co., Inc., 132-36
 W. 124th St., New York 27, N. Y.
 Hercules Powder Co., 952 King St., Wilmington,
 Del.
 Herman Body Co., 4400 Clayton Ave., St. Louis
 10, Mo.
 Hettrick Mfg. Co., 1401 Summit St., Toledo 12,
 Ohio

High Chemical Co., Chemical Specialties Div.,
 1760 N. Howard St., Philadelphia 22, Pa.
 Hild Floor Machine Co., 740 W. Washington
 Blvd., Chicago 6, Ill.
 Hine Needle Co., 10018 S. Rhodes Ave., Chicago
 26, Ill.
 Hodge, Farwell & Co., 1934 Sterling Ave., Elk-
 hart, Ind.
 Hodges, Jack, Specialty Co., 1529 Westheimer
 Rd., Houston 6, Texas
 Hoffman, U. S., Machinery Corp., 105 Fourth
 Ave., New York 3, N. Y.
 Hollingsworth & Vose Co., 112 Washington St.,
 East Walpole, Mass.
 Holt Mfg. Co., 651-81 20th St., Oakland 12, Cal.
 Hood Chemical Co., Inc., Crescent Div., 80
 Rittenhouse Pl., Ardmore, Pa.
 Hoof Products Co., 6543 S. Laramie Ave., Chi-
 cago 38, Ill.
 Hooker Electrochemical Co., Niagara Falls, N. Y.
 Hooper, Wm. E. & Sons, Woodberry, Baltimore,
 Md.
 Hope Webbing Co., Providence 1, R. I.
 Hopkins Equipment Co., 22 Maple Ave., Hat-
 field, Pa.
 Horn, A. C. Co., Inc., 10th St. & 44th Ave.,
 Long Island City 1, N. Y.
 Horwath Laundry Machine Mfg. Co., 1002 S.
 13th St., Omaha, Neb.
 Houghton, E. F. & Co., 303 W. Lehigh Ave.,
 Philadelphia 33, Pa.
 House of Plastics, Div. Neon Sign Co., Inc., N.
 14th at Taylor, Herrin, Ill.
 Howe Paper Corp., 670 Young St., Tonawanda,
 N. Y.
 Howe Scale Co., Rutland, Vt.
 Hoyt Mfg. Corp., Forge Rd., Westport, Mass.
 Hub Printing Services, 320 N. Euclid Ave., Oak
 Park, Ill.
 Hubinger Co., 601 Main St., Keokuk, Iowa
 Heusch Div., American Laundry Machinery Co.,
 3775 N. Holton St., Milwaukee 1, Wisc.
 Hungerford & Terry, Inc., Atlantic Ave., Clayton,
 N. J.
 Huntington Laboratories, Inc., 900-970 E. Tipton
 St., Huntington, Ind.
 Huron Milling Co., 9 Park Pl., New York 7, N. Y.
 Hydrator Co., Div. of Zephyr Laundry Ma-
 chinery Co., LaSalle & Huron Sts., Chicago 10,
 Ill.
 Hygrade Button & Supply Co., 19 W. 34th St.,
 New York 1, N. Y.

I

Ideal Industries, Inc., Park Ave., Sycamore, Ill.
 Ideal Lighting Co., 2219 63rd St., Kenosha, Wisc.
 Ideal Stencil Machine Co., 102 Iowa Ave., Belle-
 ville, Ill.
 Ibg Electric Ventilating Co., 2850 N. Crawford
 Ave., Chicago 41, Ill.
 Illinois Laundry Machinery Mfg. Co., 3128 W.
 Lake St., Chicago, Ill.
 Imperial Dye House, 3421 Tulane Ave., New Or-
 leans 19, La.
 Imperial Laundry Machinery Co., 245 Huron St.,
 Brooklyn 22, N. Y.
 Indiana Dye House, 122-126 State St., Ham-
 mond, Ind.
 Indiana Mfg. Co., 1900 E. Main St., New Albany,
 Ind.
 Industrial Equipment Co., 361 N. Ada St., Chi-
 cago 7, Ill.
 Industrial Grain Products, Ltd., 741 Talbot St.,
 London, Ont., Can.
 Industrial Products Co., 2654 N. Fourth St., Phila-
 delphia 33, Pa.
 Inflico, Inc., 325 W. 25th Pl., Chicago 16, Ill.
 Ingersoll-Rand Co., 11 Broadway, New York 4,
 N. Y.
 Ink-O Products Co., 5101 Monte Vista St., Los
 Angeles 42, Cal.
 Innis, Speiden & Co., 117 Liberty St., New York
 6, N. Y.
 International Boiler Works Co., 500 Birch St.,
 East Stroudsburg, Pa.
 International Engineering, Inc., 1145 Bolander
 Ave., Dayton 1, Ohio
 International Harvester Co., 180 N. Michigan
 Ave., Chicago, Ill.
 International Metal Polish Co., 1910 Quill St.,
 Indianapolis 7, Ind.
 International Nickel Co., Inc., 67 Wall St., New
 York 5, N. Y.
 International Paper Co., Southern Kraft Div.,
 220 E. 42nd St., New York 17, N. Y.
 International Salt Co., Scranton 2, Pa.
 International Steel Wool Corp., 2205 Park Rd.,
 Springfield, Ohio
 International Tag & Salesbook Co., 319 N. Whip-
 ple St., Chicago 12, Ill.
 International Ticket Co., 50 Grafton Ave., Newark
 4, N. J.
 International Wire Hanger Mfg. Co., 2128 W.
 Lake St., Chicago 12, Ill.
 Invinible Vacuum Cleaner Mfg. Co., 14th &
 Davis Sts., Dover, Ohio
 Inweaving Co. of America, 1505 11th St.,
 Wichita Falls, Texas

MANUFACTURERS

Iowa Soap Co., 816 Valley St., Burlington, Iowa
Ironer Div., Speed Queen Corp., Algonquin, Ill.
Iron Fireman Mfg. Co., 3170 W. 106th St.,
Cleveland 11, Ohio
Iselin-Jefferson Co., Inc., 90 Worth St., New York
13, N. Y.

J

J & L Mfg. Co., 21 Castle Ave., Bridgeport 5,
Conn.
Jacobson, Lawrence, Dye Works, Inc., Oxford
Ave., Summerdale & Conly Sts., Philadelphia
24, Pa.
Jarvis & Jarvis, Inc., S. Main St., Palmer, Mass.
Jay-Dee, Inc., Mfg. Chemists, 946 Kenmore
Bldg., Akron 14, Ohio
Jefferson Island Salt Co., Inc., Jefferson Island
Bldg., 136 St. Matthews Ave., Louisville 7,
Ky.
Jensen Mfg. Co., Broad St. & Hylton Rd., Pal-
myra, N. J.
John-Manville, 22 E. 40th St., New York 16,
N. Y.
Johnson Chemical Industries, Inc., 99 Mellor Ave.,
Baltimore 28, Md.
Johnson Corp., 855 Wood St., Three Rivers, Mich.
Johnson Metal Hose, Inc., 10 Sperry, Waterbury
20, Conn.
Johnson, S. C. & Son, Inc., Racine, Wisc.
Johnson, W. F., Products Co., 309 Joliet Ave.,
San Antonio 9, Texas
Johnston Bros., Inc., 100 Pine St., Ferrysburg 1,
Mich.
Johnston & Jennings Co., Div. Pettibone-Mulliken
Corp., 6917 Bessemer Ave., Cleveland 27,
Ohio
Jones, C. Walker, Co., 6135 N. Lambert, Phila-
delphia 38, Pa.
Julian-Kay Co., 1133 Broadway, New York 10,
N. Y.
Juno Cleaner Supplies, Inc., 632 Wythe Ave.,
Brooklyn 11, N. Y.

K

K & K, Inc., 16 Sutton St., Lawrence, Mass.
Kamen Soap Products Co., Inc., 233 Broadway,
New York 7, N. Y.
Kaplan's, David G., Drycleaner's Service (Katr
Furs), 146 W. 29th St., New York 11, N. Y.
Karrick Co., 2100 McLendon Ave., N. E., Atlanta,
Ga.
Kato Engineering Co., 1415 First Ave., Mankato,
Minn.
Kaye & MacDonald, Inc., 11-15 Central Ave.,
West Orange, N. J.
Keckley, O. C., Co., 400 W. Madison St., Chicago
6, Ill.
Keeler, E., Co., 238 West St., Williamsport 3, Pa.
Keefer Starch Co., 538 E. Town St., Columbus
15, Ohio
Kelite Products, Inc., P. O. Box 2917, Terminal
Annex Station, Los Angeles 54, Cal.
Kelley Iron Works, 801 W. First St., Charlotte,
N. C.
Kelmaker Mfg. Co., 311 Sixth Ave., Rochelle, Ill.
Kelvinator Div., Nash-Kelvinator Corp., 14250
Plymouth Rd., Detroit, Mich.
Kemlek Corp., Div. Tobin-Halpert, Inc., 254
Third St., Brooklyn 15, N. Y.
Kennite Corp., Harwood Bldg., Scarsdale, N. Y.
Kennedy Car Liner & Bag Co., Inc., Hodell &
Prospect Sts., Shelbyville, Ind.
Kennedy Products Co., 4125 Orchard Lane, Cin-
cinnati 36, Ohio
Kenney Softener & Filter Co., 3322-24 Montrose
Ave., Chicago 45, Ill.
Kentucky Box & Truck Co., Fourth & Alvasia
Sts. (P. O. Box 463), Henderson, Ky.
Kewanee Boiler Corp., Franklin St. & Q Tracks,
Kewanee, Ill.
Kewanee-Ross Corp., 1469 West Ave., Buffalo 13,
N. Y.
Keyes-Davis Co., 110 14th St., Battle Creek, Mich.
Keystone Aniline & Chemical Co., Inc., 321 N.
Loomis St. (1400 W.), Chicago 7, Ill.
Keystone Chemical Co., 2019 Center St., N. W.,
Cleveland 13, Ohio
Keystone Coat & Apron Mfg. Corp. & Keystone
Scent Conditioner Corp., 315 N. 12th St.,
Philadelphia 7, Pa.
Keystone Laundry Machinery Co., 413 N. Oswego
St., Chicago 22, Ill.
Keystone Tag Co., West Chester, Pa.
Key-Tag Checking System Co., 6509 Hough Ave.,
Cleveland 3, Ohio
Kiddie, Walter, & Co., Inc., 675 Main St., Belle-
ville 9, N. J.

Kimball, A., Co., 307 W. Broadway, New York
13, N. Y.
Kinford Co., 218 Lansdowne Ave., Wayne 1, Pa.
Kirk & Blum Mfg. Co., 3120 Forrer St. (Oakley),
Cincinnati 9, Ohio
Kirk's Leather Cleaners, 7320 Melrose Ave., Los
Angeles 46, Cal.
Kisco Boiler & Engineering Co., 2414 De Kalb
St., St. Louis 4, Mo.
Kleenschammer Inc., Harris Ave., Greenville, Ill.
Kletnick, L., & Co., 8342 S. Prairie Ave., Chicago
19, Ill.
Klieman Bros., Inc., 76-01 77th Ave., Glendale,
Brooklyn 27, N. Y.
Kling "100" Corp., 1827 N. Harlem Ave., Chicago
37, Ill.
Klipfel Mfg. Co., 1000 Weller Ave., Hamilton,
Ohio
Knight, Maurice A., Settlement, Akron 6, Ohio
Knitted Pading Co., 105 Chapman St., Canton,
Mass.
Kohnstamm, H., & Co., Inc., 83-93 Park Pl.,
New York 7, N. Y.
Kol Master Corp., P. O. Box 111, Oregon 1, Ill.
Kordite Corp., Macdon, N. Y.
Kran-Mer Corp., 2433-35 N. Third St., Milwau-
kee 12, Wisc.
Kresky Mfg. Co., Inc., 307 Third St., Petaluma,
Cal.
Krevit, H., & Co., Inc., 11 Albert St., New Haven
11, Conn.
Kuehne Chemical Co., 878 Woodruff Lane, Eliza-
beth, N. J.
Kunkle Valve Co., 119 S. Clinton St., Fort Wayne
2, Ind.

L

Laclede Stoker Co., 4438 Hunt Ave., St. Louis
10, Mo.
La France Dye House, 946 Shehy St., Youngs-
town 6, Ohio
Laidlaw, W. A., Wire Co., Peoria, Ill.
Lally, R., Co., 1729 Greenleaf Ave., Chicago 26,
Ill.
Lamboy Label & Wrapper Co., 2129 Portage St.,
Kalamazoo 29F, Mich.
Lamson Corp., Blower Div., Lamson St., Syracuse,
N. Y.
Lane, W. T., & Bros., Inc., Prospect St., Pough-
keepsie, N. Y.
Lanning Bag & Specialty Co., 205 Front St.,
Harvard, Ill.
Larick Mfg. Co., 287 Broadway, New York, N. Y.
Larton Products Co., Inc., 4234 Third Ave., New
York 57, N. Y.
Lattner, F. M., Mfg. Co., 1411 Ninth St., S.W.,
Cedar Rapids, Iowa
Laundry Chemicals Co., 4538 W. 130th St.,
Cleveland 11, Ohio
Laundry Machinery Div., Jefferson Wood Work-
ing Co., 14th & Hill Sts., Louisville, Ky.
Laurel Co., 129 Grand St., Garfield 2, N. J.
Layne & Bowler, Inc., Box 6697, Hollywood Sta-
tion, Memphis 8, Tenn.
Le Ann Furs, Inc., 311 Collinsville Ave., East St.
Louis, Ill.
Leathers, L. M., Sons, Paper Products Div.,
675 Pulaski St., Athens, Ga.
Lee Converters, Inc., 28 W. 23rd St., New York
10, N. Y.
Lee Mfg. Co., 453 Taunton Ave., East Providence
14, R. I.
Leebaw Mfg. Co., 65 Wayne Ave., Youngstown
2, Ohio
Leel Bros., Inc., 205 Irving Ave., N., Minneapolis
5, Minn.
Lefel, James, & Co., 426 East St., Springfield 99,
Ohio
Leprechaun, Inc., 475 Fifth Ave., New York 17,
N. Y.
Leslie Co., 297 Grant Ave., Lyndhurst, N. J.
Lever Bros. Co., 300 Park Ave., New York, N. Y.
Levy, I. & H., Inc., 31 Greene St., New York 13,
N. Y.
Lewis, G. B., Co., P. O. Box 377, Watertown,
Wisc.
Lewis Invisible Stitch Machine Co., 129 W. 22nd
St., New York, N. Y.
Lewis National Corp., 1 Mt. Vernon St., Dor-
chester 25, Mass.
Lewis-Shepard Products, Inc., 307 Walnut St.,
Watertown 72, Mass.
Liberty Marking Tag Co., Inc., 27 Hooper St.,
Brooklyn 11, N. Y.
Lincoln Bag Co., Inc., 4200 W. Schubert Ave.
(2700 N.), Chicago 39, Ill.
Lincoln-Hudson Floor Dyers, Inc., 900 Passaic Ave.,
East Newark, N. J.
Lincoln Research, Inc., 3250 Montrose St.,
Toledo 6, Ohio
Lincoln Rug Co., Inc., 85 Springdale Ave.,
Newark, N. J.
Lincoln-Schluetter Floor Machinery Co., Inc., 512
S. Peoria St., Chicago, Ill.
Linen Suppliers Advertising Corp., 175 Fifth Ave.,
New York 16, N. Y.
Link-Belt Co., 300 W. Pershing Rd., Chicago 9,
Ill.
Linn Coach & Truck Div., Great American Indus-
tries, Inc., 443 Chestnut St., Oneonta, N. Y.

Lion Uniform Co., 209 S. Jefferson, Dayton 2,
Ohio
Liquidometer Corp., 39-21 Skillman Ave., Long
Island City 1, N. Y.
Little Frenchman's Dye Works, 921 N. 25th St.,
Waco, Texas
Livingstone Engineering Co., 100 Grove St.,
Worcester 5, Mass.
Loebel Dye Works, Inc., Roanoke, Va.
Lookout Boiler & Mfg. Co., Manufacturers Rd. &
Compress St., Chattanooga 1, Tenn.
Loroco Industries, Inc., 203 E. Benson St., Read-
ing 15, Ohio
Los Angeles Soap Co., 617 E. First St., Los
Angeles, Cal.
Louden Machinery Co., 1402 Broadway, Fairfield,
Iowa
Loyal Textile Machinery Corp., 286 Scholes St.,
Brooklyn, N. Y.
Lubbock Machine Co., Inc., Box 1138, Lubbock,
Texas
Lucas, Claude E., Associates, 880 E. Colorado,
Pasadena, Cal.
Lucas Products Corp., 3839 Seiss Ave., Toledo 12,
Ohio
Luby Boiler & Mfg. Co., Chattanooga 2, Tenn.
Lunkenheimer Co., P. O. Box 360, HH, Cin-
cinnati 14, Ohio
Lynch, John P., Co., 1401 16th St., San Fran-
cisco, Cal.

Mc

McBee Co., 295 Madison Ave., New York, N. Y.
McClary Associates, Inc., 612 N. Main St.,
Memphis, Tenn.
McDonnell & Miller, Inc., 3500 N. Spaulding
Ave., Chicago 18, Ill.
McElmoyl, W. J., Co., 63 Church St., Groveville,
N. J.
McGrane Bros., 44 Court St., Brooklyn 2, N. Y.
McLay, Walter J., 1105 N. Water St., Milwaukee
2, Wisc.
McLeod & Henry Co., Inc., 351 First St., Troy,
N. Y.

M

M. B. Mfg. Co., Inc., 1060 State St., New Haven,
Conn.
M & B Metal Products Co., 4415 Morris Ave.,
Birmingham, Ala.
M & M Chemical Co., 1559 W. Main St., Willi-
mantic, Conn.
Mans, A. R., Chemical Co., Div. Victor Chemical
Works, 4570 Ardine St., South Gate, Cal.
Macheth Corp., 227 W. 17th St., New York 11,
N. Y.
Mack Trucks, Inc., 350 Fifth Ave., New York 1,
N. Y.
Madison Products Co., 105 16th St., Toledo 2,
Ohio
Magic Re-Weaving Service, 28 W. Second St.,
Salt Lake City, Utah
Magic-Seal Paper Products, 883 E. Hudson,
Columbus 11, Ohio
Magic Textile Weavers, 948 W. McNichols Rd.,
Detroit 3, Mich.
Magnus Chemical Co., Inc., South Ave., Gar-
wood, N. J.
Majestic Dye House, 3920 W. Armitage Ave.,
Chicago 47, Ill.
Majestic Paper & Twine Co., Inc. (Laundry &
Drycleaning Supply Div.), 155 Inlay St.,
Brooklyn 31, N. Y.
Malleable Iron Fittings Co., Branford, Conn.
Mallinckrodt Chemical Works, Second & Mallinck-
rodt Sts., St. Louis 7, Mo.
Manitowoc Cotton Goods Mfg. Co., 909 York St.,
Manitowoc, Wisc.
Manitowoc Engineering Corp., 512 S. 16th St.,
Manitowoc, Wisc.
Manning, Maxwell & Moore, Inc., 250 E. Main
St., Stratford, Conn.
Marlene Products Corp., 1181 Jefferson Ave.,
Buffalo 8, N. Y.
Marion Machine Foundry & Supply Corp., 90
West St., New York, N. Y.
Market Forge Co., 25 Garvey St., Everett 49,
Mass.
Market Industries, Inc., 209 Utah St., San Fran-
cisco 1, Cal.
Mark-O Corp., 17 W. 60th St., New York 23,
N. Y.
Mark-Tex Corp., 453 W. 17th St., New York
11, N. Y.
Marlow Pumps, Greenwood Ave., Ridgewood,
N. J.

Mar-Mak Machinery Mfg. Co., 626 N. Logan Ave., Danville, Ill.
 Marmion-Herrington Co., Inc., 1511 W. Washington St., Indianapolis 7, Ind.
 Marsh, Jas. P., Corp., 2073 Southport Ave., Chicago 14, Ill.
 Marshall Co., 4350 N. Pulaski Rd., Chicago 41, Ill.
 Marshall Heater Co., 716-26 E. Monument Ave., Dayton 2, Ohio
 Martin Equipment Co., Div. American Laundry Machinery Co., Ross & Section Aves., Cincinnati 12, Ohio
 Martin Fan & Blower Co., 4632 W. 21st Pl., Chicago 50, Ill.
 Martin, Reba, Inc., 4201 N. W. Second Ave., Miami 37, Fla.
 Marvella Corp., 2019 Center St., N. W., Cleveland 13, Ohio
 Marvel Marking Machine Co., 1433 Blake St., Denver, Colo.
 Mason-Neelan Regulator Co., 1190 Adams St., Boston 24, Mass.
 Master Builders Co., 7016 Euclid Ave., Cleveland 3, Ohio
 Master, Gen., Div., Ligonier, Ind.
 Master Machinery Co., Anderson, Ind.
 Master Mfg. & Equipment Co., 3000 St. Louis, Fort Worth 1, Texas
 Master Products Co., 7000 S. Wentworth Ave., Chicago 21, Ill.
 Mathieson Chemical Corp., Mathieson Bldg., Baltimore 3, Md.
 Maxant Button & Supply Co., 117 S. Morgan St., Chicago 7, Ill.
 Mead, George E. Co., 11240 S. Arroyo Dr., Whittier, Cal.
 Mears-Kane-Ofeldt, Inc., P. O. Box 223, Bridgeport, Pa.
 Medalie Mfg. Co., 213 First Ave., N., Minneapolis 1, Minn.
 Meese, Inc., 1948 Madison St., Madison, Ind.
 Mechanical Handling Systems Inc., 4600 Nancy Ave., Detroit 12, Mich.
 Mehl Mfg. Co., 2057 Reading Rd., Cincinnati 2, Ohio
 Memphis Hanger Co., 14th & P. & L. E. R. R., Monaca, Pa.
 Menasha Wood Split Pulley Co., 674 Tayco St., Menasha, Wisc.
 Mendex Corp., 2300 Payne Ave., Cleveland 14, Ohio
 Mercury Cleaning Systems, Inc., 1817 Benson Ave., Evanston, Ill.
 Merson Products Co., 63 Essex St., Jersey City 2, N. J.
 Metalstale Mfg. Corp., 536 Broad St., Glen Rock, N. J.
 Metropolitan Body Co., 151 Kossuth St., Bridgeport 8, Conn.
 Mexico Refractories Co., Love & Cole Sts., Mexico, Mo.
 Meyercoed Co., 5323 W. Lake St., Chicago 44, Ill.
 Midland Color & Chemical Co., 15 Greene St., Jersey City 2, N. J.
 Midland Paint & Varnish Co., 3828 E. 91st St., Cleveland 5, Ohio
 Midwest Hanger Co., 2100 Guinotte Ave., Kansas City 20, Mo.
 Midwest Laundry & Cleaning Machinery Co., 1341-45 W. Main, Oklahoma City, Okla.
 Miller Co., 99 Center St., Meriden, Conn.
 Miller Laundry Machinery Co., 8341 Lyndon Ave., Detroit 21, Mich.
 Milwaukee Leather Belting Co., 1114 N. Water St., Milwaukee 2, Wisc.
 Milwaukee Printed String Co., 2604 W. Fond du Lac Ave., Milwaukee 6, Wisc.
 Mine Safety Appliances Co., 201 N. Braddock Ave., Pittsburgh 8, Pa.
 Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Windom Aves., Philadelphia 44, Pa.
 Minnesota Chemical Co., 2285 Hampden Ave., St. Paul 4, Minn.
 Mitchell, J. B., Co., 4916-28 W. Jefferson Blvd., Los Angeles 18, Cal.
 Modine Mfg. Co., 1557 De Koven Ave., Racine, Wisc.
 Moeller Instrument Co., Inc., 132-08 89th Ave., Richmond Hill 18, N. Y.
 Mohawk Rubber Co., 1235 Second Ave., Akron 5, Ohio
 Monite Co., Inc., 4510 Hampton St., St. Louis, Mo.
 Monix Co., 277 Greenhay Rd., Wilmette, Ill.
 Monroe Co., Inc., 10703 Quebec Ave., Cleveland 8, Ohio
 Montpelier Mfg. Co., Montpelier, Ohio
 Moore Business Forms, Inc., 900 Buffalo Ave., Niagara Falls, N. Y.
 Moore Co., 800 S. Missouri Ave., Marceline, Mo.
 Moore's Time Saving Equipment Co., 1934 S. Sterling Ave., Elkhart, Ind.
 Morehead Mfg. Co., 2455 W. Warren Ave., Detroit 8, Mich.
 Morheat Corp., 700 E. Kalamazoo St., Lansing 12, Mich.
 Morse Display Cases, 627 11th St., Wilmette, Ill.
 Morse Mfg. Co., Inc., 122 Dickerson St., Syracuse 2, N. Y.
 Mortenoth Chemical Laboratories, 3178 N. Fraternity St., Milwaukee 12, Wisc.
 Moser Bag & Paper Co., 3049 E. 55th St., Cleveland 27, Ohio

Multi-Clean Products, Inc., 2277 Ford Parkway, St. Paul 1, Minn.
 Multi-Metal Wire Cloth Co., Inc., 1347 Garrison Ave., New York 59, N. Y.
 Mund Boilers, Inc., 1600 N. Indiana St., Los Angeles 33, Cal.
 Murray, D. J. Mfg. Co., 1002-24 Third St., Wausau, Wisc.
 Mutual Paper Box Co., Inc., 510 W. 27th St., New York 1, N. Y.
 Myer, Henry, Thread Mfg. Co., 319 W. Van Buren St., Chicago 7, Ill.

N

Nagel Coat Hanger Co., 1200-18 Oliver St., Houston 7, Texas
 Nanco Chemical Corp., 4765 Bellevue Ave., Detroit 7, Mich.
 Nashua Gummed & Coated Paper Co., Surehold Div., Franklin St., Nashua, N. H.
 Nashua Textile Co., Empire State Bldg., New York 1, N. Y.
 National Airoil Burner Co., Inc., 1284 E. Sedgley Ave., Philadelphia 34, Pa.
 National Aluminate Corp., 6216 W. 66th St., Chicago 38, Ill.
 National Aniline Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.
 National Boiler Protector Co., 928 Reibold Bldg., Dayton 2, Ohio
 National Bundle Tye Co., Dept. 10, Blissfield, Mich.
 National Cash Register Co., Main & K Sts., Dayton 9, Ohio
 National Chemical Sales Co., Laboratory, Inc., 414-16-18 Sixth St., N. W., Atlanta, Ga.
 National Cleaners Chemical Mfg. Co., 2807-11 W. Lake St., Chicago 12, Ill.
 National Combustion Co., 101-06 43rd Ave., Corona 68, N. Y.
 National Dryer Mfg. Co., 2500 60th St., Kenosha, Wisc.
 National Dye House, 5812 W. Washington Blvd., Culver City, Cal.
 National Dye Works, Inc., 3513 Washington Blvd., Baltimore 22, Md.
 National Hatters Supplies Co., 81 W. Van Buren St., Chicago 5, Ill.
 National Indemnity Exchange, 3820 Washington Blvd., St. Louis 8, Mo.
 National Institute of Drycleaning, Silver Spring, Md.
 National Life Insurance Co., Montpelier, Vt.
 National Marking Machine Co., 4026 Cherry St., Cincinnati 23, Ohio
 National Milling & Chemical Co., 4601 Nixon St., Philadelphia 27, Pa.
 National Paper Band Co., P. O. Drawer 126, Denver, Colo.
 National Paper & Type Co., 120 Wall St., New York 5, N. Y.
 National Repair Services, 615 E. Main St., Richmond 19, Va.
 National Starch Products, Inc., 270 Madison Ave., New York 17, N. Y.
 National Steam Pump Co., 701 W. Johnson, Upper Sandusky, Ohio
 National System of Garage Ventilation, Inc., National Ventilating Systems Div., 140 W. William St., Decatur, Ill.
 National Tag & Label Corp., 19 Bridge St., Watertown 72, Mass.
 National Textile Chemical Co., 1984 E. 83rd St., Cleveland, Ohio
 National Textile Conservation Div., Research Laboratories, Sherron Acres, Durham, N. C.
 National Truck Leasing System, 23 E. Jackson Blvd., Chicago 4, Ill.
 Necchi Sewing Machine Sales Corp., 164 W. 25th St., New York 1, N. Y.
 Neon Sign Co., Inc., House of Plastics Div., N. 14th at Taylor, Herrin, Ill.
 Neva-Clog Products, Inc., 506 Logan St., Bridgeport 1, Conn.
 New Departure, Div. General Motors Corp., Bristol, Conn.
 New England Business Service, Riverbank Terrace, Townsend, Mass.
 New England Trawler Equipment Co., 301 Eastern Ave., Chelsea 50, Mass.
 Newhouse Co., 3827 San Fernando Rd., Glendale 4, Cal.
 New South Mfg. Co., Inc., 711 Bankhead Ave., N.W., Atlanta, Ga.
 New York Belting & Packing Co., 1 Market St., Passaic, N. J.
 New York High Grade Button Works, 3569 Broadway, New York 31, N. Y.
 New York Pressing Machinery Corp., 880 Broadway, New York 3, N. Y.
 New York Telecoin Corp., 12 E. 44th St., New York 17, N. Y.
 New York Twine Corp., 43 W. 36th St., New York 18, N. Y.
 Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.
 Nicholson, W. H., & Co., 12 Oregon St., Wilkes-Barre 1, Pa.

Nicholson, Wm. J., Laboratories, 2971 W. Davidson, Detroit, Mich.
 Nissen, John P., Jr., Co., Glenside, Pa.
 No-Darn Co., 618 N. Wells St., Chicago 10, Ill.
 Nopco Chemical Co., Inc., First & Essex Sts., Harrison, N. J.
 Norman Control Co., 4650 W. Lawrence Ave., Chicago 30, Ill.
 North American Dye Corp., 22 North St., Danbury, Conn.
 North American Electric Lamp Co., 1090 Tyler St., St. Louis 6, Mo.
 North American Mfg. Co., 4533 E. 71st St., Cleveland, Ohio
 North Coast Chemical & Soap Works, 6307-21 17th Ave., S., Seattle 8, Wash.
 Northern Equipment Div., Continental Foundry & Machine Co., 1945 Grove Dr., Erie, Pa.
 Norton & Williams, Inc., 608 North Ave., Westfield, N. J.
 Nuodex Products Co., Inc., 830 Magnolia Ave., Elizabeth, N. J.
 Nu-Pro Mfg. Co., 2918 Washington Ave., St. Louis 3, Mo.
 Nutting Truck & Caster Co., 1125 W. Division St., Faribault, Minn.
 Nycco Products Co., 110 W. 29th St., New York 1, N. Y.

O

Oakite Products, Inc., 22B Thames St., New York 6, N. Y.
 Oakville Div., Scoville Mfg. Co., Waterbury 20, Conn.
 O'Brien Steam Specialty Co., Inc., 205 Harrison St., Syracuse 2, N. Y.
 Odor Instruments Inc., 220 E. 42nd St., New York 17, N. Y.
 Ohio Centrifugals Co., 342 S. Monument Ave., Hamilton, Ohio
 Ohio Injector Co., 175 Laundry St., Wadsworth, Ohio
 Ohio Mechanics Institute, Central Parkway & Walnut St., Cincinnati 10, Ohio
 Ohmer Register Co., 740 Bolander Ave., Dayton, Ohio
 Oil-Rite Corp., 2318 Waldo Blvd., Manitowoc, Wisc.
 Oil States Petroleum Co., Inc., 233 Broadway, New York, N. Y.
 Olin Cellophane Div., Ecusto Paper Corp., 655 Madison Ave., New York 21, N. Y.
 OlsenMark Corp., 124 White St., New York 13, N. Y.
 Olson, J. B. E., Corp., 1740 Broadway, New York 19, N. Y.
 Olson Filtration Engineers, Inc., 1624 N. Kilbourn Ave., Chicago 39, Ill.
 Olson Industries, Inc., Adams, Wisc.
 Omaha Dye Works, 24th & Poppleton, Omaha, Nebr.
 Ontario Iron Works, 32 Park St., Pulaski, N. Y.
 Orr Felt & Blanket Co., Piqua, Ohio
 Orr & Sembower, Inc., P. O. Box 1138, Reading, Pa.
 Osborn Bros., 223 W. Jackson Blvd., Chicago 6, Ill.
 Oshkosh Filter & Softener Co., 51 Ceape St., Oshkosh, Wisc.
 Outside Venetian Blind Co., 2625 Elm St., Dallas 1, Texas
 Owens-Corning Fiberglas Corp., 16 E. 56th St., New York 22, N. Y.

P

Paasche Airbrush Co., 1909 W. Diversey Parkway, Chicago 14, Ill.
 Pabst Brewing Co., Industrial Products Div., 221 N. LaSalle St., Chicago 1, Ill.
 Pacific Car & Foundry Co., Renton, Wash.
 Pacific Coat Hanger Mfg. Co., 6710 Avalon Blvd., Los Angeles 3, Cal.
 Package Chemical Co., Inc., 218 W. First St., Boston 27, Mass.
 Package Masters, 2525 S. Wabash Ave., Chicago 16, Ill.
 Packless Metal Hose Inc., 31 Winthrop Ave., New Rochelle, N. Y.
 Padcraft Corp., 480 W. Front St., Red Bank, Pa.
 Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.
 Pak-Rite Flexible Packaging Co., 135 W. 20th St., New York 11, N. Y.
 Pantex Mfg. Corp., 521 Roosevelt Ave., Pawtucket, R. I.
 Paper Chemicals, Inc., 510 W. 27th St., New York 1, N. Y.
 Para-Lux Products Co., 4158 W. Schubert Ave., Chicago 39, Ill.

MANUFACTURERS

Parisian Novelty Co., 3510 S. Western Ave., Chicago 9, Ill.
 Park & Tifford, 485 Fifth Ave., New York 17, N. Y.
 Parker, Sid E., Boiler Mfg. Co., Inc., 2035 E. 37th St., Los Angeles 11, Cal.
 Patek & Co., 1900 16th St., San Francisco 1, Cal.
 Patterson-Kelley Co., Inc., 46 Warren St., East Stroudsburg, Pa.
 Patterson Laboratories, Inc., 11930 Pleasant Ave., Detroit 25, Mich.
 Payson Mfg. Co., 2916 W. Jackson Blvd., Chicago 12, Ill.
 Peabody Engineering Corp., 580 Fifth Ave., New York, N. Y.
 Pecora Paint Co., Lawrence St. & Sedgley Ave., Philadelphia 40, Pa.
 Peerless Pump Div., Food Machinery & Chemical Corp., 301 West Ave., 26, Los Angeles 31, Cal.
 Pellerin Milnor Corp., 8000 Edinburgh St., New Orleans 18, La.
 Penick & Ford, Ltd., Inc., 420 Lexington Ave., New York 17, N. Y.
 Pennington Co., Riverside Ave., Gillette, N. J.
 Penn Novelty Co., 228-30 N. 15th St., Philadelphia 2, Pa.
 Pennsylvania Refining Co., Butler Savings & Trust Building, Butler, Pa.
 Pennsylvania Rubber Co., Penn-Craft Park, Jeanette, Pa.
 Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia 7, Pa.
 Perelmutter, M., & Co., 4423-25 Broadway, Chicago 40, Ill.
 Perfection Marking Machine Co., 441 Detroit St., Denver 6, Colo.
 Perfection Products Co. & Identification, Inc., 550 W. Harrison St., Chicago 7, Ill.
 Perfex Corp., 509 W. Oklahoma Ave., Milwaukee 11, Wisc.
 Permafiber Corp., 450 Seventh Ave., New York 1, N. Y.
 Perma Mfg. Co., Inc., 189 North Ave., N. E., Atlanta, Ga.
 Perma Products Co., P. O. Box 25, Linwood Station, Detroit 6, Mich.
 Per-Mo Products Co., 1715 E. 36th St., Kansas City 3, Mo.
 Pernutti Co., 330 W. 42nd St., New York 18, N. Y.
 Perry, E. J., & Co., 1329 Rockdale Ave., New Bedford, Mass.
 Pest Control Equipment Co., 47 W. 43rd St., New York 18, N. Y.
 Pfaff Sewing Machine Sales Co., 820 Greenwich St., New York 14, N. Y.
 Philadelphia Belting Co., Sixth & Spring Garden Sts., Philadelphia 23, Pa.
 Philadelphia Quartz Co., 1160 Public Ledger Bldg., Sixth & Chestnut Sts., Philadelphia 6, Pa.
 Phidco Corp., Storage Battery Div., 467 Calhoun St., Trenton 7, N. J.
 Phoenix Oil Co., 9505 Cassius Ave., Cleveland 5, Ohio
 Phoenix Products Co., 4715 N. 27th St., Milwaukee 9, Wisc.
 Photowich, Inc., 77 Broadway, Cambridge 42, Mass.
 Piazza Engineering Co., 4317 W. Irving Park Rd., Chicago 41, Ill.
 Pick Mfg. Co., 255 S. Main St., West Bend, Wisc.
 Pinnacle Products Corp., 260 Madison Ave., New York 16, N. Y.
 Pioneer Development Co., 1059 Ingraham St., Los Angeles 14, Cal.
 Pittsburgh Hanger Co., 14th & P. & L. E. R. R., Monaca, Pa.
 Pittsburgh Plate Glass Co., Paint Div., 632 Duquesne Way, Pittsburgh, Pa.
 Pittsburgh Tag Co., 1112-20 Galveston Ave., Pittsburgh 33, Pa.
 Pittsburgh Waterproof Co., 2537 Penn Ave., Pittsburgh 22, Pa.
 Plibrico Co., 1800 Kingsbury St., Chicago 14, Ill.
 Pneumatic Engineering & Sales, 1010 Des Moines Bldg., Des Moines, Iowa
 Pocock, M. A., 1234 Central Ave., N.E., Minneapolis 13, Minn.
 Popkins Fixture Co., 3722 Forest Park Blvd., St. Louis 8, Mo.
 Porto-Fab Co., Inc., 9215 Weiss St., Dallas 9, Texas
 Powder Dispenser Co., Palestine, Texas
 Powers Regulator Co., 2810 Greenview Ave., Chicago 14, Ill.
 Preferred Utilities Mfg. Corp., 1860 Broadway, New York 23, N. Y.
 Pre-Marked Strip Tag Co., 3232 India St., San Diego 1, Cal.
 Pres-Grip Corp., 3108 Main St., Buffalo 14, N. Y.
 Premium Service Co., 115 W. 19th St., New York, N. Y.
 Procter & Gamble Distributing Co., Gwynne Bldg., P. O. Box 599, Cincinnati 2, Ohio
 Procter & Schwartz, Inc., Seventh St. & Tabor Rd., Philadelphia 20, Pa.
 Progressive Textile Mfg. Co., 3252 River Ave., Camden 3, N. J.
 Proportioners, Inc., P. O. Box 1442, Providence, R. I.
 Prosperity Co., Inc., 2131-2171 Erie Blvd., E., Syracuse 1, N. Y.
 Prym, William, Inc., Daville, Conn.
 Pultelean Towel Cabinet System, 11 Broadway, New York 4, N. Y.
 Pure Oil Co., 35 E. Wacker Dr., Chicago 1, Ill.

Purkett Mfg. Co., 325 E. Third St., Joplin, Mo.
 Pyrene Mfg. Co., 560 Belmont Ave., Newark 8, N. J.
 Pyrometer Instrument Co., Inc., Bergenfield 33, N. J.

Q

Quality Products Co., 5760 W. Grand Ave., Chicago 39, Ill.
 Quigley Co., Inc., 527 Fifth Ave., New York 17, N. Y.
 Quik Pac Div., H. Wesley Hutchins Co., Hutching St., Auburn, Maine

R

Radiator Specialty Co., 1700-1900 Dowd Rd., Charlotte 1, N. C.
 Rainbow Dye Works, 109 S. 16th St., Louisville 2, Ky.
 Ramelli, Rudolph, Inc., 1030 Sprague St., Shreveport, La.
 Ramtite Co., Div. S. Oehmayer Co., 2563 W. 18th St., Chicago 8, Ill.
 Randolph Laboratories, Inc., 8 E. Kinzie St., Chicago 11, Ill.
 Rapids-Standard Co., 535 Bono Ave., N.W., Grand Rapids 2, Mich.
 Rassenfoss Bag Co., Inc., 1904 Grove St., Glenview, Ill.
 Rathbun Co., 2507 Chartres St., Houston 4, Texas
 Raybestos-Manhattan, Inc., 61 Willett St., Passaic, N. J.
 Raychem Products Co., 20 E. 19th St., Paterson 4, N. J.
 Ray Oil Burner Co., 1301 San Jose Ave., San Francisco 12, Cal.
 Reading-Pratt & Cady, Div. American Chain & Cable Co., Inc., Tulpehocken St. & Lebanon Valley R. R., Reading, Pa.
 Reed Mfg. Co., 1425 W. Eighth St., Erie, Pa.
 Reed-Stabin, Inc., 504 62nd St., Brooklyn 20, N. Y.
 Rees-Davis Bros., Inc., Meriden, Conn.
 Reeves Bros., Inc., 54 Worth St., New York 13, N. Y.
 Reintjes, George P., 2515-17 Jefferson St., Kansas City 10, Mo.
 Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc., 238 Eagle St., Brooklyn 22, N. Y.
 Reliable Steam Pressing Machine Service, Inc., 175 Bergen St., Newark 3, N. J.
 Reliance Electric & Engineering Co., 1058 Ivanhoe Rd., Cleveland 10, Ohio
 Rema Corp., Box 86, Norwalk, Conn.
 Remington Rand Co., 315 Fourth Ave., New York, N. Y.
 Renard's, 741 Madison Ave., New York 21, N. Y.
 Reo Motors, Inc., 1314 S. Washington Ave., Lansing 20, Mich.
 Repel-O-Products Div., North American Merchandise Co., Transportation Bldg., Detroit 26, Mich.
 Republic Flow Meters Co., 2240 W. Diversey Parkway, Chicago 47, Ill.
 Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio
 Research Laboratories Corp., P. O. Box 338, Durham, N. C.
 Research Products Corp., 1011 E. Washington Ave., Madison 3, Wisc.
 Resilio Co., 2325 W. Nelson St., Chicago 18, Ill.
 Resistoflex Corp., 39 Plamoen Rd., Belleville 9, N. J.
 Resisto Laboratories, 1266 Donald Ave., Lakewood, Ohio
 Revere Copper & Brass, Inc., 230 Park Ave., New York 17, N. Y.
 Revere Electric Mfg. Co., 6009 N. Broadway, Chicago 40, Ill.
 Revolute Div. (Atlas Powder Co.), Ludlow St., Stamford, Conn.
 Rhodes, Preston T., 520-22 N. 61st St., Philadelphia, Pa.
 Rison Mfg. Co., 14 Rison St., Naugatuck, Conn.
 Riverside Chemical Co., Inc., 871-947 River Rd., North Tonawanda, N. Y.
 Riverside Mfg. Co., 4919-27 Connecticut St., St. Louis 9, Mo.
 Roberts Numbering Machine Co., 705 Jamaica Ave., Brooklyn 8, N. Y.
 Robins, G. S., & Co., 126 Chouteau St., St. Louis, Mo.
 Robinson School of Weaving, 210½ W. Main, Lebanon, Ind.

Robot Laundry Machinery Sales, Wolf Ave., Chambersburg, Pa.
 Rochester Can Co., 114 Greenleaf St., Rochester 9, N. Y.
 Rockwell, W. S., Co., 200 Eliot St., Fairfield, Conn.
 Rodin Machinery Co., Div. Rodin Bros., 930 E. 43rd St., Chicago 15, Ill.
 Roller Bearing Co. of America, Box 480, Trenton 3, N. J.
 Roll-on-Sealer Co., Antioch, Ill.
 Rome Soap Mfg. Co., Sixth St., Rome, N. Y.
 Ronaflex Tubing Co., Inc., Packard Bldg., Philadelphia 2, Pa.
 Root & Co., 11 Ionia, S. W., Grand Rapids 2, Mich.
 Roots-Connersville Blower Corp., 900 W. Mount St., Connersville, Ind.
 Rosenthal Mfg. Co., 5035 N. Kedzie Ave., Chicago 25, Ill.
 Rosenthal Paper Co., 200 Lynch St., St. Louis 18, Mo.
 Roth, Roy E., Co., 2430 Fourth Ave., Rock Island, Ill.
 Rothleder, Mannie, Co., 50 W. 29th St., New York, N. Y.
 Rubber City Mfg. Co., 714 N. Main St., Akron 10, Ohio
 Ruberoid Co., 500 Fifth Ave., New York 18, N. Y.
 Rubin, E. L., Mfg. Co., 4 Monroe St., Pittsfield, Mass.
 Rubinoff, M., Inc., 154-156 W. 27th St., New York 1, N. Y.
 Rugles, Klingemann Mfg. Co., Foster Court, Salem, Mass.
 Rumford Chemical Works, 21 Newman Ave., Rumford 16, R. I.
 Rusco Chemicals, Box 601, Alhambra, N. C.
 Russell Mfg. Co., Middletown, Conn.

S

Sabin Machine Co., 6536 Carnegie Ave., Cleveland 3, Ohio
 St. Louis Sticker Co., 1906 Pine St., St. Louis 8, Mo.
 Salisbury Mfg. Co., Box 1523, Providence, R. I.
 Salomon, L. A., & Bro., 216 Pearl St., New York 7, N. Y.
 Sanitone Div., Emery Industries, Inc., 2706 Carew Towers, Cincinnati 2, Ohio
 San-Top Co., Stepien Depot, Conn.
 Sarcus Co., Inc., Empire State Bldg., New York, N. Y.
 Schaub, Fred H., Engineering Co., Inc., 2110 S. Marshall Blvd., Chicago 23, Ill.
 Schirmer-Dornbier Pump Co., 1719 E. 39th St., Cleveland 14, Ohio
 Schorsch & Co., Inc., 120 Bruckner Blvd., New York 34, N. Y.
 Schramm, Inc., West Chester, Pa.
 Schutte & Koerting Co., Cornwells Heights, Bucks County, Pa.
 Schwartz, B. W., Co., Box 205, Washington St., Two Rivers, Wisc.
 Schwitzer-Cummins Co., 1145 E. 22nd St., Indianapolis 7, Ind.
 Scientific Packages, Inc., 1827 Park Ave., Denver, Colo.
 Seamlux Company, Inc., 41-23 24th St., Long Island City 1, N. Y.
 Sec-O-Matic Corp., Div. International Projector Corp., 55 LaFrance Ave., Bloomfield, N. J.
 Security Fur Seal Co., Inc., 144 W. 27th St., New York 1, N. Y.
 Sellers Engineering Co., 4876 N. Clark St., Chicago 40, Ill.
 Seneca Dyers, Inc., 1227 Maple St., Rochester 11, N. Y.
 Serdex Inc., 91 Cambridge St., Boston 14, Mass.
 Sergeant, E. M., Pulp & Chemical Co., Inc., 7 Day St., New York 7, N. Y.
 Service Recorder Co., 1375 Euclid Ave., Cleveland 15, Ohio
 Shane Uniform Co., Inc., 2013 W. Maryland, Evansville 7, Ind.
 Shedlov-Heinz Mfg. Co., 15-B Wilder St., Minneapolis 1, Minn.
 Shell Oil Co., Inc., 50 W. 50th St., New York 20, N. Y.
 Sherwin-Williams, 101 Prospect Ave., N. W., Cleveland 1, Ohio
 Shields Engineering & Mfg. Co., 277 E. 156th St., Cleveland 19, Ohio
 Shreveport Garment Mfg., 908 McNeil St., Shreveport 95, La.
 Shuler Conveyors, Inc., 43 Hutcheson Place, Lynbrook, N. Y.
 Shur Mothproof Co., P. O. Box 956, Colorado Springs 3, Colo.
 Siebring Mfg. Co., 100 Owen St., George, Iowa
 Signal Chemical Mfg. Co., 2650 Wood Hill Rd., Cleveland 4, Ohio
 Simco Co., 918 W. Master St., Philadelphia 22, Pa.
 Simmons Machine Co., 5118 Lincoln Ave., Chicago 25, Ill.
 Simplex Oil Heating Corp., 7901 Oxford Ave., Philadelphia 11, Pa.
 Simplex Time Recorder Co., 24 S. Lincoln St., Gardner, Mass.

Singer Sewing Machine Co., 149 Broadway, New York 6, N. Y.
 Sirotta, Bernard, Co., 620 Smith St., Brooklyn 31, N. Y.
 Skelly Oil Co., 47th St. & Penn Ave. (605 W. 47), Kansas City, Mo.
 Skrandel Co., 6433 S. Rockwell St., Chicago 29, Ill.
 Slater-Robbins Co., Inc., 28-44 Borden Ave., Long Island City, N. Y.
 Smith Bros. Co., Highway 64 at West Ave., Plymouth, N. C.
 Smith, Frank R., Co., 503 Front St., Orange, Texas
 Smith, George, Mfg. Co., 1323 W. Carroll Ave., Chicago 7, Ill.
 Smith, Gilman B., Co., Inc., 915 Broadway, New York 10, N. Y.
 Smith, R. B., Co., 1609 S. Nevada Ave., Colorado Springs, Colo.
 Smith, X. S., Inc., Box 272, Red Bank, N. J.
 Snag-Put Corp., 525 W. 52nd St., New York 19, N. Y.
 Snap-Back Co., Inc., 56 Walker St., New York 13, N. Y.
 Soden, P. N. & Co., Ltd., 2143 St. Patrick St., Montreal, Quebec
 Socomey-Vacuum Oil Co., Inc., 26 Broadway, New York 4, N. Y.
 Solvay Process Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.
 Some's Terminal Uniforms, P. O. Box 87-5 Cos. Branch, Jersey City, N. J.
 Sonneborn, L., Sons, Inc., 88 Lexington Ave., New York 16, N. Y.
 Southeastern Textile Co., 222 E. Solomon St., Griffin, Ga.
 Southern Mills, Inc., 585 Wells St., S. W., Atlanta, Ga.
 Spear Box Co., Inc., 270 11th Ave., New York 1, N. Y.
 Speare Co., 2235 S. Ford Ave., Chicago 16, Ill.
 Specialty Devices Co., 805 E. 26th St., Norfolk 4, Va.
 Speed Check Co., Inc., P. O. Box 6131, Atlanta, Ga.
 Speed Products Co., Inc., 37-18 Northern Boulevard, Long Island City 1, N. Y.
 Speedway Chemical Co., 2029 Park Ave., Detroit 26, Mich.
 Speedy Washer Mfg. Co., 5700 N. W. 35th Ave., Miami 48, Fla.
 Spencer Turbine Co., 486 New Park Ave., Hartford, Conn.
 Spix Products Co., 119 Dahlem St., Pittsburgh 6, Pa.
 Spotswood Parker & Co., 313 Techwood Dr., N. W., Atlanta, Ga.
 Stadham Co., Inc., 1825-31 N. 20th St., Philadelphia 21, Pa.
 Staffer Textile Weavers, 312 E. Wisconsin Ave., Milwaukee, Wisc.
 Stauffer Mfg. Co., Inc., 145 58th St., Brooklyn 20, N. Y.
 Stainproof Mfg. Co., 2032 E. Seventh St., Los Angeles 21, Cal.
 Staley, A. E., Mfg. Co., 220 Eldorado, Decatur 60, Ill.
 Stamford Chemical Co., 60 Spruce St., Stamford, Conn.
 Stampagraph Co., Inc., 79 Alexander Ave., Bronx 54, N. Y.
 StampPatch Magic Mender, Elbow Lake, Minn.
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 Crocker-Wheeler Electric Mfg. Co., Div. Joshua Hendy Iron Works, 601 W. Fifth St.
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 Curtis Mfg. Co., 2844 S. Grand Ave.
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 Belekny Woolen Co., 60-62 S. High St. (E & S)
 Bristol Co., 727 Grant St.
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 Goodrich, B. F., & Co., 500 S. Main St.
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Stauffer Chemical Co., 326 S. Main St.
 Williams, I. B., & Sons, 40 W. Market St.

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Berger Mfg. Div., Republic Steel Corp., 1038 Belden Ave., N. E.
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Elliott Co., 261 E. Ridge (Beaverton)
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Iron Fireman Mfg. Co., 4629 S. E. 17th Ave.
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Kewanee Boiler Corp., 432 Pacific Bldg.
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TO BUY OR SELL A LAUNDRY, DRYCLEANING OR RUG CLEANING BUSINESS IN NEW YORK, NEW JERSEY, CONNECTICUT OR PENNSYLVANIA, CONTACT RICHARD J. MULLER, Lic. Broker, 89-16 184th St., Jamaica 3, N. Y. REpublic 9-3016. 5814-2

For Sale—laundries, drycleaning plants, rug cleaning plants in Metropolitan N. Y. C. area, Westchester, New Jersey, Connecticut, Pennsylvania. If interested in buying or selling, contact J. B. KANDEL, 131-39 225TH STREET, LAURELTON, LONG ISLAND, NEW YORK. PHONE: LAURELTON 8-3291. 4648-2

WELL-ESTABLISHED SOLVENT PLANT in OHIO, county seat of 10,000. Golden opportunity for cleaner and wife. Death of partner reason for selling. ADDRESS: Box 5244, NATIONAL CLEANER & DYER. -2

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Modern solvent plant in northwest Wyoming. New and nearly new equipment. \$50,000 year volume. Terms. Guaranteed lease on building. Ideal climate, good hunting and fishing. ADDRESS: Box 5776, NATIONAL CLEANER & DYER. -2

Florida, West Coast, solvent plant. Beautiful building, 85% cash-and-carry. Gross \$3,500 a month. \$45,000. Terms. ADDRESS: Box 5778, NATIONAL CLEANER & DYER. -2

One of Kansas City, Missouri's most modern drive-in, cash-and-carry plants, grossing \$30,000 annually. Laundry agency. With or without real estate, including five apartments. All \$75,000, plant \$25,000. Owner will finance. Retiring. E. C. Aust, 1315 E. 10th St., Kansas City, Mo. 5875-2

Fully-equipped modern synthetic drycleaning plant. Paying business. Will stand close investigation. Located in growing California Peninsula city. Price \$16,000. ADDRESS: Box 5878, NATIONAL CLEANER & DYER. -2

Modern solvent cleaning plant, St. Petersburg, Fla., now operating. Established 18 years. Will sacrifice. Owner must return North. Apply: W. C. Odom, 12 W. Washington Ave., Pleasantville, N. J. 5879-2

Modern solvent plant in famous Palouse country. Large drawing area. County seat. Town population 3,000. New building and equipment. 15 miles from Washington State College. Grossing \$24,000, good prices. Elite Cleaners, Colfax, Washington. 5880-2

Modern drycleaning plant for sale, Mexico City. Clearing \$2,500 per month net, capacity 5 times present volume. \$150,000, half down. For particulars write: L. Sloane, Apartado 139 bis, Mexico, D. F. 5881-2

CINCINNATI, OHIO—Modern up-to-date synthetic drycleaning plant and men's shop with formal rental business, carrying a complete line of nationally advertised merchandise. 1953 we grossed \$38,562.29. Cash-and-carry, no delivery. Machinery, fixtures, stock and merchandise valued at \$18,429.99. We have nothing to give away. But if you are interested in an excellent opportunity, we invite you to investigate our business, which we are selling for \$23,000. Write to: Sky's Cleaners & Men's Shop, Sky's Corner, Gilbert at Lincoln Ave., Cincinnati 6, Ohio. 5882-2

Completely equipped solvent plant, \$140,000 gross. Call office, routes, wholesale. Located in one of the fastest growing areas in southern California. Business increasing each quarter. \$20,000 to handle. ADDRESS: Box 5883, NATIONAL CLEANER & DYER. -2

Solvent plant, established 31 years. Property included, two apartments above. Wish to retire. Located south California. ADDRESS: Box 5888, NATIONAL CLEANER & DYER. -2

Partner's death forces sale of plant in south California, doing over \$6,000 per week. Fair equipment, fine building, terms. Fine spot for linen and industrial supply. ADDRESS: Box 5889, NATIONAL CLEANER & DYER. -2

Equipment, solvent plant, used nine months. To highest bidder. Disabled ex-soldier. ADDRESS: Box 5891, NATIONAL CLEANER & DYER. -2

Drycleaning plant, well-established and profitably operated in a thriving community on the outskirts of Baltimore, Md. Gross last year approximately \$60,000. Auditor's figures available. This is a wonderful opportunity for someone experienced in drycleaning. It is possible to double present volume. Will take \$6,000 down payment and finance balance to responsible party. Address: Box 5917, NATIONAL CLEANER & DYER. -2

DRYCLEANING PLANT, MODERN, FIREPROOF, BUILT UNDER STATE SPECIFICATIONS, DRIVE-IN LOCATION—Serving area, 12,000 people. If you consider yourself a good operator and business man, NO CASH REQUIRED. Priced way below replacement cost. PAUL E. NOLLEN, GALION, OHIO. 5918-2

Southern Minnesota Mercury plant; Adjusta-Form; two utility presses; Prosperity toppler; four puffers; Cissell bag sleeve; steam vacuum finishing board; cuff brusher; prespotting unit; Dryset 8-unit vacuum; Glover trouser stretcher; Clover spotting board; Bock wetcleaning extractor; 10 H.P. boiler with return; \$1,000 National register; miscellaneous. Priced to sell \$12,500. Don Hayden, St. Charles, Minn. 5923-2

Well-established solvent plant and shirt unit, northwestern Pennsylvania. Storage vault and rug room; 4 stores; 6 routes; 3 apartments over offices. Equipment in excellent condition. Excellent buy. Write: Box 5927, NATIONAL CLEANER & DYER. -2

READY TO RETIRE. Must sell business doing over \$60,000 annually. Mostly retail at good prices; also profitable wholesale. Complete plant \$35,000, terms. Located Albany, N. Y. ADDRESS: Box 5942, NATIONAL CLEANER & DYER. -2

Established cleaners and dyers. Complete business including real estate. Located in a prosperous central New York city. Grossing over \$100,000 annually. Price \$100,000, owner will finance. Boggs Real Estate, Verona, New York. 5928-2

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MIAMI, FLORIDA: Wonderful opportunity for responsible parties to purchase this NAPHTHA PLANT, with no cash down. Grossing \$65,000, annually. ADDRESS: Box 5930, NATIONAL CLEANER & DYER. -2

Modern solvent plant, central Illinois. Everything perfect, nothing extra to buy. Gross \$35,000, a clean money-maker. Will sell with or without real estate. Reason for selling, owner of two plants. Contact or write Modern Cleaners, Clinton, Illinois. 5931-2

CLEANING PLANTS FOR SALE (Cont'd)

DRYCLEANING PLANT fully equipped, including real estate, equipment and business, annual volume approximately \$65,000; catering to colored people exclusively. Address: **SOCIAL CLEANERS**, 615 16th Street, North, Birmingham, Ala. 5932-2

Well-established solvent plant, 2 offices, cash-and-carry, 5 routes, on main street, town of 40,000 in beautiful west central Wisconsin; also **THE** rug and upholstery cleaners in territory. Annual volume \$83,000. All modern equipment. 60 H.P. boiler. Top prices. Priced for fast sale. Excellent hunting and fishing country. Write: Box 5884, **NATIONAL CLEANER & DYER**. -2

PHOENIX, ARIZONA, fast-growing community, near Arizona Biltmore Hotel, land 199 x 362, on main highway; two plant buildings and 3-bedroom home on land. Lease on a well-located branch office. Hoffman equipment. \$27,000 will handle, total price \$42,000. For information regarding other business or investments, address W. W. Mitchell, Sr., Realtor, P. O. Box 426, Tempe, Arizona. 5905-2

For Sale—Drycleaning plant (solvent). Fast-growing area, Florida. New equipment. Last year's volume—\$43,000. Contract work, cash-and-carry. This business can easily be increased by younger man with ambition. Price \$35,000. For details write—ADDRESS: Box 5948, **NATIONAL CLEANER & DYER**. -2

Drycleaning plant and real estate for sale, Iowa county seat over 7,000. Best location, normal competition. \$19,000 cash or \$9,000 down and \$10,000 on contract. Good, consistent business. ADDRESS: Box 5951, **NATIONAL CLEANER & DYER**. -2

Small modern cleaning plant in nice suburban area near Long Beach, **CALIFORNIA**, for SALE, or may TRADE for plant in small town 5,000 to 25,000 population. Prefer California or West. Well-equipped 140 F plant now grossing \$3,500 per month. 2 trucks. \$14,500. Write: Keith Orr, 22105 McHelen Ave., Long Beach 10, Calif. 5922-2

For Sale: Small laundry and drycleaning plant in the heart of Magic Valley, Idaho. Established over twenty years. Modern equipment. For complete details and terms write: Buhl Laundry & Dry Cleaners, Buhl, Idaho. 5886-2

Plant for Sale: Profitable drycleaning and laundry business in Midwest. All equipment less than five years old. Gross volume over \$200,000 per year. 1/2 laundry, 3/4 drycleaning. Low productive labor cost, no union. Death of owner reason for selling. Right party may buy with substantial down payment. Building included. ADDRESS: Box 5953, **NATIONAL CLEANER & DYER**. -2

Downtown—petroleum plant—Watertown, N. Y. Prices \$1.25 and up. No charge accounts. Average over \$1,000 weekly business. Established 1936 same location. Get your money back in two years or less. For quick sale \$24,000. Terrific husband-and-wife deal. Jess Freedman, 176 Central Avenue, Albany, N. Y., c/o Freedman's Dry Cleaning Enterprises, Inc. 5944-2

Modern solvent plant near **NEW SEAWAY**. Building and machinery, 4 years old. Doing \$8,000 a year, two people. Poor health. Price \$15,000. ADDRESS: Box 5908, **NATIONAL CLEANER & DYER**. -2

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Manager's position wanted, graduate two cleaning schools, highly technical. 20 years in industry, manager's experience, strictly sober. Want something with security and a future. ADDRESS: Box 5671, **NATIONAL CLEANER & DYER**. -5

Manager—silk spotter, age 39, married, 20 years experience in all departments, capable of training help, wants steady position with future. Prefer Metropolitan New York City area, or Long Island. Address: Box 5858, **NATIONAL CLEANER & DYER**. -5

Working manager, young family man, is looking for steady job, preferably in N. Y. or Connecticut. N.I.D. graduate, expert in synthetic cleaning and spotting. ADDRESS: Box 5945, **NATIONAL CLEANER & DYER**. -5

Laundry and drycleaning superintendent, 25 years experience. Work any nationality, quality, production. Married, sober, steady, 45 years old, prefer warm climate. Will go anywhere or foreign country. Salary \$125 per week. Oscar L. Cason, Shepherds Town, West Virginia. 5950-5

SUPERVISORY POSITION IN DRYCLEANING PLANT. EXPERIENCED. CHICAGO AREA. ADDRESS: Box 5898, **NATIONAL CLEANER & DYER**. -5

Manager's position wanted, capable of assuming complete responsibility of large plant. Graduate of N.I.D. general and management courses. Fifteen years experience managing topflight plants. Only interested in long-term proposition. Address: Box 5912, **NATIONAL CLEANER & DYER**. -5

DRYCLEANING PLANT MANAGER, SUPERINTENDENT or SALES MANAGER, desires position with quality plant. 10 years experience, economy of production and material guaranteed. 34 years old, married, NID graduate and college. References. Will consider investing. ADDRESS: Box 5896, **NATIONAL CLEANER & DYER**. -5

Moving to California, am interested in a position in Glendale or Burbank area, having sold my solvent plant. N.I.D. graduate thoroughly experienced in all phases. Family man. Small plant preferred. Good reference. ADDRESS: Box 5935, **NATIONAL CLEANER & DYER**. -5

Manager, synthetic and solvent experience, capable of training personnel, sober, reliable, age 38, married, N.I.D. graduate, now employed, wishing to locate in Southern California. Have "California Plant Operator's" license. ADDRESS: Box 5943, **NATIONAL CLEANER & DYER**. -5

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Salesman with a large following among cleaners and laundries to sell fur cleaning and storage chemicals. Unusual opportunity with well-known firm. No technical background necessary. Bernard Sirota Company, 620 Smith St., Brooklyn 31, N. Y. 3371-14

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Salesman with following among cleaners to sell cleaning soaps, detergents. Unusual opportunity with well-known firm. No technical background necessary. Wye Industries, 636 Dorchester Ave., Boston 27, Mass. 5789-14

JOBBER—DISTRIBUTORS for PADS, COVERS and FLANNELS of **BEST QUALITY** and **FULL CUT**. Write for samples and low prices to E. L. RUBIN Mfg. Co., 4 Monroe Street, Pittsfield, Mass. 5920-14

DISTRIBUTORS—JOBBERs for wire garment hangers. Exclusive territories still available. **DIAMOND WIRE HANGER CO., CLAIRTON, PA.** Manufacturers of Wire Coat Hangers. 5669-14

SALESMEN: New line to drycleaner. Young, progressive firm seeks field representatives in protected territories. Liberal commissions on repeat supply items. Perfect opportunity to work into bright future with growing concern. Chicago, Cleveland, Philadelphia, and other vicinities open. Full details in first letter. ADDRESS: Box 5946, **NATIONAL CLEANER & DYER**. -14

\$8.40 PROFIT ON DOZEN. YEAR 'ROUND REPEAT BUSINESS SELLING OUTSTANDING BLOOD STAIN REMOVER. FREE ADVERTISING. SIGNS FOR DRYCLEANERS. MONEY-BACK GUARANTEE. WRITE RO-WASH, DEPARTMENT N4, 696 PEMBROKE ROAD, JENKINTOWN, PA. 5940-14

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WORKING FOREMAN for long-established, high-quality exclusive drycleaning plant. New buildings and equipment, employing about 45 people. Must have expert knowledge and experience in every phase of drycleaning, also training new help. Here is real opportunity for a well-informed, sober and dependable middle-aged married man to permanently connect himself and secure his future with a high-class organization. Give full and detailed experience in first letter. Paris Cleaners-Furriers, Yale Blvd. & Ash St., Springfield, Ill. 5863-7

DRYCLEANING PLANT wants experienced route supervisor capable of taking full charge, hire and train drivers, promote sales, establish new routes, etc. Must furnish references and bond. \$4,250 and commission. Give age, qualifications, etc., in first letter. P. O. Box 1814, Portland 11, Oregon. 5900-7

COMBINATION SPOTTER—small petroleum plant. Some cleaning room work. Must be sober and cooperate with other employees. Quality work essential. Average 5½ days per week. This job is for steady, reliable man. Near Oakland, California. ADDRESS: Box 5901, NATIONAL CLEANER & DYER. -7

The right man to handle a drive-in synthetic cleaning plant, retail only, in Chicago. Must be experienced, able, ambitious, responsible, aggressive, and want to make money. Enclose qualifications and references to Box 5913, NATIONAL CLEANER & DYER. -7

Fast-expanding drycleaning machinery manufacturer of a complete line of equipment has several openings for direct representatives. Salary and commission. Write stating experience and qualifications. All replies held in strict confidence. ADDRESS: Box 5936, NATIONAL CLEANER & DYER. -7

SILK SPOTTER experienced in all drycleaning departments, including management and equipment. Steady position with future. ADDRESS: Box 5937, NATIONAL CLEANER & DYER. -7

DRYCLEANING MANAGER for efficient drycleaning plant, approximately \$2,500 weekly. Must be familiar with modern production methods. Must understand silk spotting, as well as all other phases of the drycleaning business. Excellent opportunity for right person. All replies confidential. Capital Cleaners and Launderers, 140 So. Governor, Dover, Delaware. 5938-7

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IMPERIAL LAUNDRY MACHINERY CO., INC., 121 Greenpoint Ave., Brooklyn, N. Y. EV 9-6585, are selling for owners of **PENN CLEANERS**, 207 W. 38th St., New York City—Prosperity laundry and drycleaning units; Prosperity 60 lb. automatic washer; 2 Mercury 140F cleaning units, 2 years old; tumblers; miscellaneous items. Also available synthetic and petroleum cleaning units; 2-girl shirt units; 5 H.P. Ingersoll-Rand compressor; 10 H.P. packaged boiler. Building must be vacated immediately. Write or telephone for inspection and details. 5417-4

American metal direct-drive 30 x 48" washer for 140F; 1,300-gallon Butler filter, 220 V, 60-cycle, 3-phase, A 1 condition; one set 2 Hoffman pullers, new. Manheim Laundry, 5344 Germantown Ave., Philadelphia 44, Pa. 5892-4

American Super Zarno two-girl shirt unit, latest model, very reasonable. D'Angelo & Ash, Inc., 301 Beach 71st Street, Arverne 92, N. Y. Belle Harbor 5-3229. 5910-4

54 x 70" Hoffman all-metal drycleaning washers; 8,000-gallon filter; 250-gallon still. Lowest prices. D'Angelo & Ash, Inc., 301 Beach 71st Street, Arverne 92, N. Y. Belle Harbor 5-3229. 5909-4

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Used heated Purkett 48" shaker equipped with two AC Motors. Priced to sell \$650. **DUDLEY LAUNDRY COMPANY, NORFOLK, NEBRASKA.** 5904-4

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Hoffman 48" extractor; 42 x 64 washer, both motorized; pants legger pressing machine; Gross 30" extractor belt-driven; Walter Haertel fur vault equipment, complete for 5,000 coats. Apply American Dry Cleaners, 17th & Allen Sts., Allentown, Pa. 5954-4

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Mund 5 H.P. boiler, like new. Air compressor 32 C.F. with 5 H.P. motor. One 10 H.P., one 15 H.P. 220 V. motor. Campbell Laundry, Fort Scott, Kansas. 5934-4

10 H.P. vertical fire-tube Hamburg boiler, like new, with Schaub return system and all controls, plus oil burner, etc. Priced at \$500 for quick sale. 2—36 x 44" washers, maple cylinders, belt-driven, \$60 each; 5 H.P. 220 volts, 60 cycle, 3 phase Wagner motor recently rewound, \$60. Verbeyst Cleaners, Tulane St., Princeton, N. J. 5870-36

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Largest and most modern cold fur storage vault in Indiana. Capacity 7,000 coats. Complete fur business and service. Lowest insurance rate in Indiana. Vault filled to capacity at present time. A number 1 reputation. Always operated at a profit. See "The National Cleaner & Dyer" magazine—October 1950 issue. Will sell all or 75% of stock. Very reasonable. **VOGUE FUR VAULT, INC.**, 2007 Kossuth Street, Lafayette, Indiana. Attention Jack N. Vaughan. 5675-21

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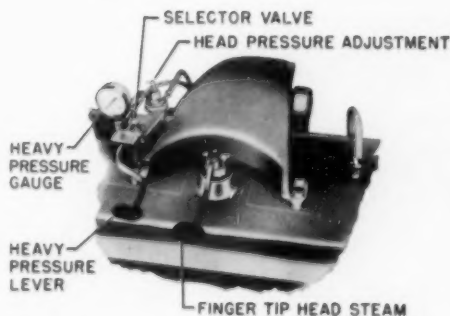
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